



The Chemical Company

REC'D 10-3-11
F.B.

September 27, 2011

Mr. Frank Battaglia (2 copies)
USEPA Region I
Office of Site Remediation and Restoration (HBT)
JFK Federal Building
Boston, MA 02203

**Re: Annual Monitoring Reports for 2009
BASF Corporation (Formerly Ciba Corporation)
180 Mill Street, Cranston, RI 02905
EPA ID RID001194323**

Dear Mr. Battaglia:

BASF Corporation (formerly Ciba) is submitting the annual Site-Wide Monitoring Program (SWMP) report for the BASF Corporation facility located at 180 Mill Street, Cranston, RI. The report covers the monitoring activities and the results of these activities that were performed at the facility during the sampling events throughout 2009.

The quarterly sampling continued through the end of 2009. For all four quarterly sampling events met the MPS for all the Chemicals of Concern.

If you have questions or need additional information, please contact me at (732) 914-2517 or by email at dorren.mcnichols@basf.com.

Sincerely,

Dorren K. McNichols
Dorren K. McNichols
Compliance Manager

c: Ms. Margaret Dein Bradley, RIDEM





The Chemical Company

ANNUAL MONITORING REPORT

**CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND**

MONITORING RESULTS

FOR

2009

**BASF CORPORATION (formerly Ciba Corporation)
TOMS RIVER, NEW JERSEY 08755**

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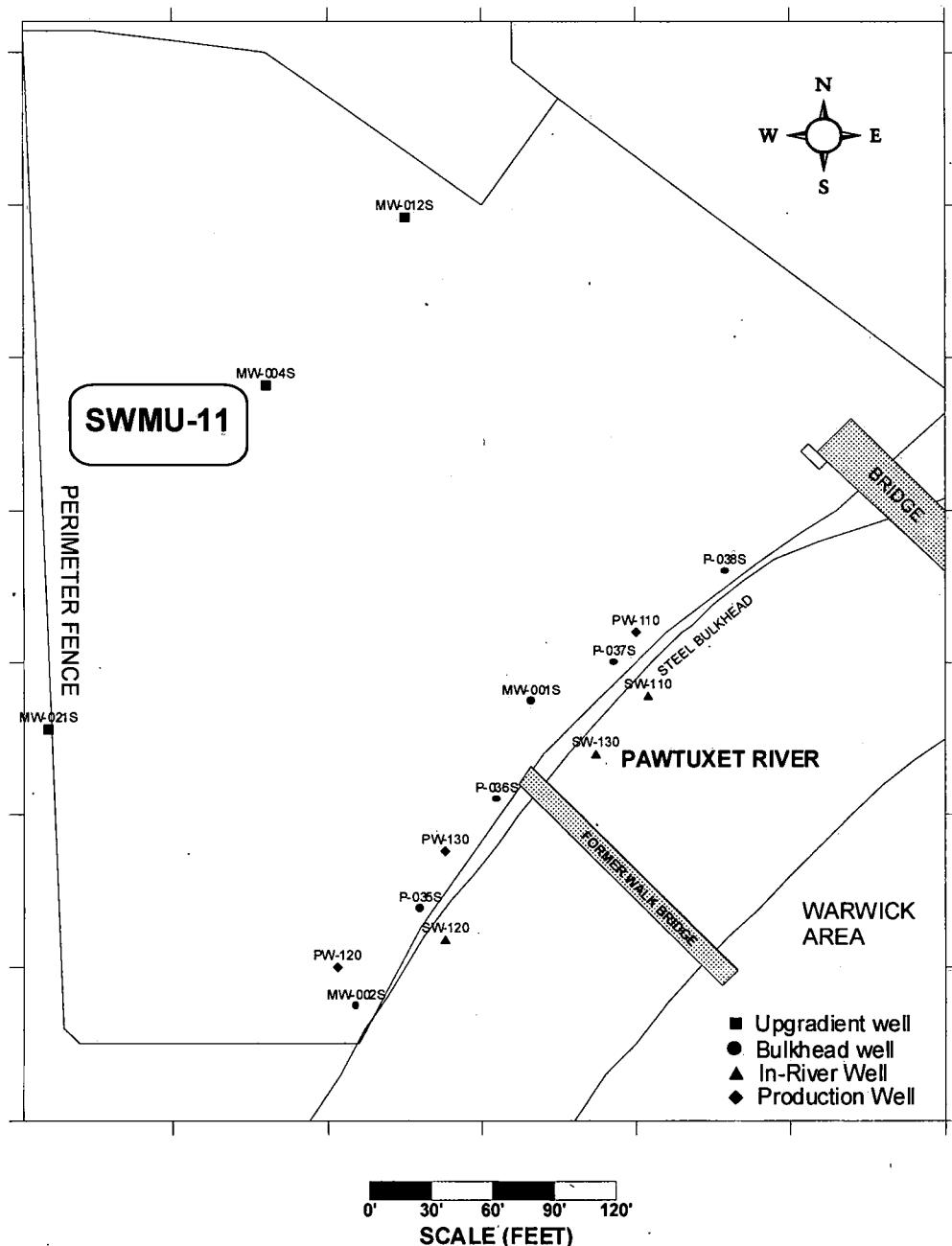
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WELL LOCATION MAP

BASF Corporation (formerly Ciba Corporation)

CRANSTON, RI FACILITY
FORMER PRODUCTION AREA

Chemical Well Monitoring Network



1.0 SUMMARY

On June 16, 1989, Ciba-Geigy Corporation (now BASF Corporation) entered into an Administrative Order on Consent (AOC) with the USEPA. The AOC required BASF Corporation (formerly Ciba) to conduct a Corrective Measures Study (CMS) and propose Media Protection Standards (MPSs) for the former manufacturing facility at Cranston, RI (the Facility). MPSs for five chemicals of concern (COC) were developed (see Table 1) and are monitored in all wells as part of the Site-Wide Monitoring Program (SWMP).

On May 5, 2006, Ciba met with the USEPA and RIDEM to outline a proposed limited shutdown of the Groundwater Extraction and Treatment System (GETS) at the Ciba facility in Cranston, RI. The GETS system operated for more than 10-years to restore groundwater to Media Protection Standards (MPSs) as published in the Corrective Measures Study (CMS) report dated August 1996. In 2004, groundwater monitoring results at the site showed monitoring wells meeting the MPSs, however, confirmation was not achieved in 2005 when well MW-002S exceeded the MPS for chlorobenzene. Ciba believed that volatility in the chlorobenzene analysis of MW-002S was a factor in the exceedance, and therefore, a trial shutdown would yield valuable information on groundwater quality at static conditions.

On May 24, 2006, Ciba shut down the GETS with EPA approval and initiated a 14-month monitoring event to evaluate groundwater quality. The following 9-wells were monitored for quality which included the MPS compounds identified in the CMS:

Monitoring wells: MW-001S, MW-002S, MW-004S, MW-012S, MW-021S, P-035S, P-036S, P-037S, and P-038S

The sampling frequency for these wells was changed from annually to quarterly and the sampling results for these wells are presented graphically in Appendices B, C and D. Included in the Appendices are the historical data for these wells, and the historical data for other wells for which a significant monitoring time interval exists.

Based on the data collected during the trial shutdown, Ciba reactivated the pumping of PW-120 and PW-130 on August 6, 2007. The quarterly sampling continued through the end of 2009. All wells met all five of the MPSs for all the Chemicals of Concern.

Since 1995, Ciba (now BASF) has captured and treated contaminated groundwater destined to reach the Pawtuxet River. A database for this captured influent to the treatment plant is maintained by BASF and represents the Total Toxic Organics (TTO) of groundwater. TTO is a measured component of the POTW discharge that BASF must comply with for the City of Cranston, which includes VOAs and Base Neutrals. The 14-year history of influent TTO along with the logarithmic trend is presented below in Figure 1. The trend is to a lower TTO, and except for 2-

years when soil remediation increased the groundwater TTO and the restart of the GETS in August, 2007 impacted the TTO, it is expected to continue downward.

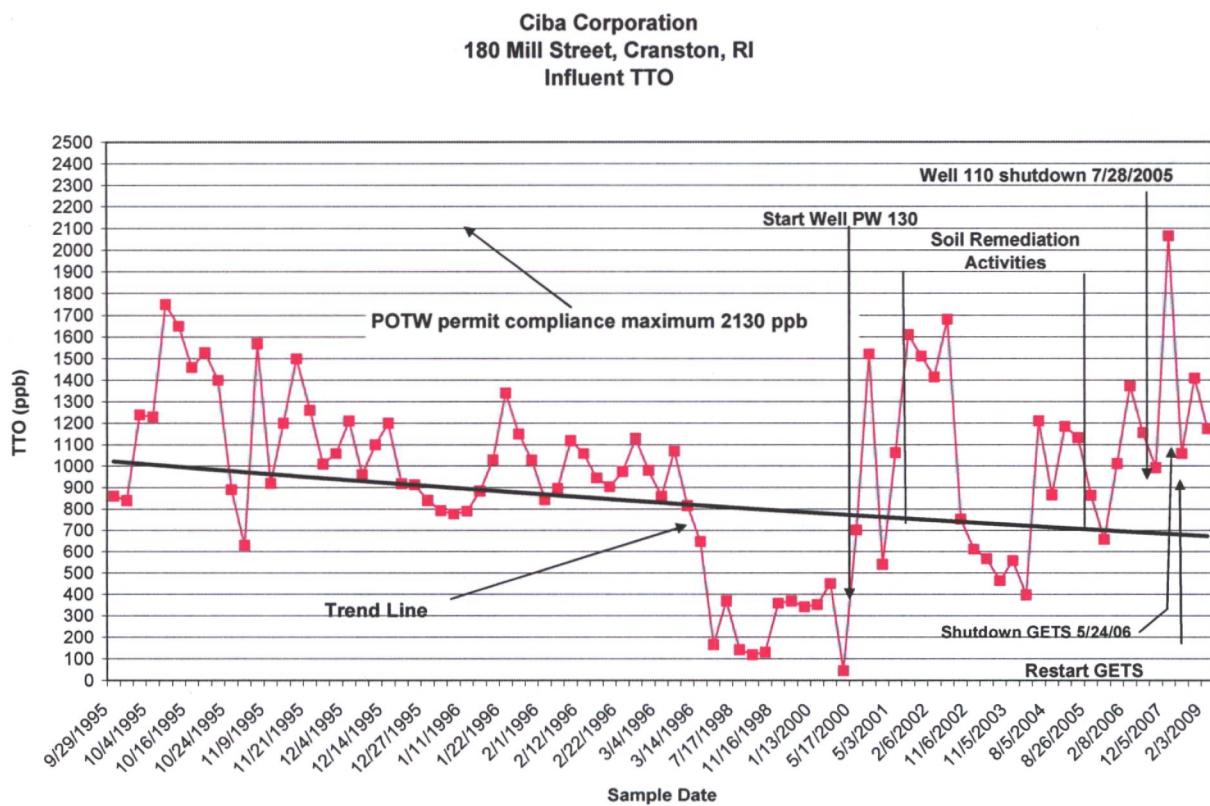


Figure 1. History of influent Treatment Plant TTO concentrations, 1995 to the present.

The next monitoring episode is scheduled for September 2010.

2.0 OBJECTIVE

The objectives of the Site-Wide Monitoring Program are to evaluate groundwater quality and verify the Groundwater Extraction and Treatment System (GETS) is controlling releases to the Pawtuxet River while long-term corrective measures to areas of concern are being addressed, specifically SWMU-11.

3.0 INTRODUCTION

In August 1996, Ciba (now BASF) submitted to the USEPA a Pawtuxet River Corrective Measures Study (PRCMS) Report. In the PRCMS report (Section 3.5.1, page 3-12), Ciba proposed to measure groundwater elevations in the former Production area following startup of the groundwater capture system until the groundwater capture and pretreatment system were shutdown.

Therefore, groundwater elevation data is collected from 23 wells to show if shallow contaminated groundwater in the former Production area is hydraulically controlled from discharging into the Pawtuxet River.

Inclusive of the PRCMS, Ciba also proposed to monitor groundwater quality at the Facility. Groundwater was sampled semiannually from 12 selected overburden-monitor wells to evaluate changes in groundwater quality, specifically for the 5 chemicals of concern. As of 2004, Ciba initiated annual monitoring as agreed to by the USEPA.¹

4.0 MEDIA PROTECTION STANDARDS

During the RCRA Facility investigation, a MPS² was developed for each of five chemical contaminants detected in the former Production Area groundwater. These contaminants and their respective MPSs are summarized in Table 1 and discussed in detail in the PRCMS Report, Section 2.4.1.

¹ Email exchanges between B. Cohen, Ciba, and F. Battaglia, USEPA, dated March 9, 2004.

² From the Public Health and Environmental Risk Evaluation (PHERE) that concluded the sole receptor impacted by contaminated groundwater were benthic invertebrates in the shallow sediments of the Pawtuxet River.

Table 1
Media Protection Standards
Chemical Of Concern
CIBA-GEIGY, Cranston R.I. Facility
Former Production Area

| Compound | MPS Concentration (ppb) |
|---------------------|-------------------------|
| 1,2-dichlorobenzene | 94 |
| chlorobenzene | 1700 |
| 2-chlorotoluene | 1500 |
| toluene | 1700* |
| xlenes | 76 |

* Rhode Island Groundwater Objective GB - Groundwater classified as GB has been designated by the Rhode Island Department of Environmental Management (RIDEM) as not suitable for public or private drinking water use.

5.0 ANNUAL MONITORING RESULTS

This report summarizes the groundwater quality results for the COC sampling that was performed throughout 2009. The COC data are compared to previous sampling rounds dating back to March 1996, when monitoring activities were initiated. Also included in this report are the results of the hydraulic monitoring performed on October 13, 2009. The current hydraulic results are compared to pre-pumping baseline conditions dated September 30, 1993 (see Appendix A).

5.1 Hydraulic Monitoring

Piezometric contours for the overburden aquifer were created using data collected from 23 groundwater monitor wells and 3 extraction wells.

The tabulated groundwater elevation data and the associated potentiometric contours, Figures 2 and 3, are included in Appendix A.

The baseline results in Figure 2 show groundwater flow from northwest to southeast to the Pawtuxet River. Figure 3 shows the effect of the 2 extraction wells on the groundwater flow. Well PW-110 north of the walk bridge was shutdown on July 28, 2005; PW-120 (2 GPM) and PW-130 (20 GPM), are capturing the plume along the bulkhead south of the walk bridge. These wells are capturing the groundwater plume that would otherwise pass by the bulkhead to the Pawtuxet River.

The hydraulic capture along the bulkhead is discussed in detail in the report "Capture Zone Analysis, Former Production area, Cranston, Rhode Island" dated July 7, 2000.

5.2 Monitoring for Chemicals of Concern (COC)

Ten wells were sampled as part of the SWMP. The wells are divided into three main groups; shown on the Location Map in Section iii of this report. The COC analytical results are tabulated and included in Table 2 at the end of this section.

Three wells, MW-004S, 012S, and 021S are designated upgradient to the Bulkhead wells. Well MW-004S showed low level contamination for all five COCs during the first and fourth quarter sampling events, and dropped off to very low concentrations or non-detects for the second and third quarter sampling events. The result for MW-021S is anomalous in that only 2-chlorotoluene is detected there.

Results for the 6 Bulkhead wells show the presence of varying levels of chlorobenzene except for P-038S, a well furthest from the contamination, and north of the former walk bridge. Also present is 1,2-dichlorobenzene at the southern bulkhead wells MW-002S P-035S and P-036S and 2-chlorotoluene in 4 of the 6 wells.

While the relatively heavy compounds (chlorobenzene, 1,2-dichlorobenzene and 2-chlorotoluene) have been dramatically reduced from historical highs, they remain relatively recalcitrant along the bulkhead between wells MW-002S and MW-001S.

Along the bulkhead, the composition of contamination upstream and downstream of PW-130 is different, implying different sources. For example, chlorobenzene and 1,2-dichlorobenzene dominate over 2-chlorotoluene upstream of PW-130, while downstream, chlorobenzene and 2-chlorotoluene dominate over 1,2-dichlorobenzene.

The In-river wells are located beyond the bulkhead in the Pawtuxet River. None of the In-river wells were sampled. Both SW-110 and SW-130 were approved by the EPA to discontinue monitoring. Well SW-120 was unable to be sampled due to a blockage. However, since 2001, the in-river wells have remained almost free of contamination a reflection of the success of the GETS.

Table 2

Monitoring Results for 2009
Chemicals Of Concern
(as ppb)

| Well Number | Sample Date | MPS | 94 1,2-Dichloro- benzene | 1700 Chloro- benzene | 1500 2-Chloro- toluene | 1700 Toluene | 76 Xylenes |
|-------------------|-------------|-----|--------------------------------|----------------------------|------------------------------|-----------------|---------------|
| Upgradient | | | | | | | |
| MW-004S | 17-Mar-09 | | 5 | 54 | 16 | 1 U | 1 U |
| | 12-Jun-09 | | 1 U | 1 U | 2 | 1 U | 1 U |
| | 11-Sep-09 | | 1 U | 5 | 4 | 1 U | 1 U |
| | 14-Dec-09 | | 22 | 94 | 94 | 1 U | 4 |
| MW-012S | 17-Mar-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12-Jun-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 11-Sep-09 | | 1 U | 5 | 1 U | 1 U | 1 U |
| | 11-Dec-09 | | 1 U | 2 | 1 U | 1 U | 1 U |
| MW-021S | 17-Mar-09 | | 1 U | 1 U | 200 | 1 U | 1 U |
| | 12-Jun-09 | | 10 U | 10 U | 1000 | 10 U | 10 U |
| | 11-Sep-09 | | 1 | 1 | 840 | 2 | 4 |
| | 14-Dec-09 | | 1 U | 1 U | 2 | 1 U | 1 U |
| Bulkhead | | | | | | | |
| MW-001S | 17-Mar-09 | | 1 U | 1300 | 1 U | 1 U | 1 U |
| | 11-Jun-09 | | 1 U | 1300 | 1 U | 1 | 43 |
| | 11-Sep-09 | | 1 U | 1600 | 1 U | 2 | 32 |
| | 11-Dec-09 | | 1 U | 800 | 1 U | 2 | 10 |
| MW-002S | 17-Mar-09 | | 10 | 1200 | 41 | 78 | 6 |
| | 11-Jun-09 | | 10 | 670 | 52 | 10 | 10 |
| | 11-Sep-09 | | 14 | 730 | 1 U | 14 | 3 |
| | 11-Dec-09 | | 7 | 910 | 18 | 57 | 2 |
| P-035S | 17-Mar-09 | | 1 U | 260 | 86 | 1 U | 1 U |
| | 11-Jun-09 | | 6 | 240 | 91 | 5 U | 5 U |
| | 11-Sep-09 | | 6 | 260 | 110 | 1 U | 2 |
| | 11-Dec-09 | | 7 | 210 | 66 | 1 U | 2 |

U = Non-detect with detection limit given

J = Estimated value

MPS Exceedance

Table 2 - continued

**Monitoring Results for 2009
Chemicals Of Concern
(as ppb)**

| Well Number | Sample Date | MPS | 94 | 1700 | 1500 | 1700 | 76 |
|-------------------|-------------|-----|----------------------|----------------|------------------|---------|---------|
| | | | 1,2-Dichloro-benzene | Chloro-benzene | 2-Chloro-toluene | Toluene | Xylenes |
| P-036S | 17-Mar-09 | | 1 U | 390 | 17 | 1 U | 1 U |
| | 11-Jun-09 | | 5 U | 410 | 35 | 5 U | 5 U |
| | 11-Sep-09 | | 3 | 520 | 39 | 1 U | 1 |
| | 11-Dec-09 | | 1 | 310 | 9 | 1 U | 1 U |
| P-037S | 17-Mar-09 | | 1 U | 2 | 14 | 1 U | 1 U |
| | 11-Jun-09 | | 1 U | 2 | 8 | 1 U | 1 U |
| | 11-Sep-09 | | 1 U | 3 | 4 | 1 U | 1 U |
| | 11-Dec-09 | | 1 U | 4 | 6 | 1 U | 1 U |
| P-038S | 17-Mar-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 11-Jun-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 11-Sep-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 11-Dec-09 | | 1 U | 1 U | 1 U | 1 U | 1 U |
| In-River | | | | | | | |
| SW-110 | 11-Sep-09 | | NA | NA | NA | NA | NA |
| SW-120 | 11-Sep-09 | | NA | NA | NA | NA | NA |
| SW-130 | 11-Sep-09 | | NA | NA | NA | NA | NA |
| Extraction | | | | | | | |
| PW-130 | 12-Mar-10 | | 4 | 160 | 65 | 1 U | 1 U |

U = Non-detect with detection limit given

J = Estimated value

NA = Not Available, sample not taken. Well Blockage

MPS Exceedance

6.0 DISCUSSION

The 2009 Certificates of Analysis by R.I. Analytical are included in Appendix E. The cumulative results from 1996 to the present for 11 wells and 5 COCs are included as Tables 3, 4, and 5 in Appendices B, C, and D respectively. The cumulative results of each COC are plotted as Time-Series graphs for a better perception of trends. These graphs are also found in the respective Appendices B, C, and D.

From the samples collected during the year, the data shows that the relatively light compounds (toluene and xylenes) have been effectively remediated. While the relatively heavy compounds (chlorobenzene, 1,2-dichlorobenzene and 2-chlorotoluene) have been dramatically reduced from historical highs, they remain relatively recalcitrant along the bulkhead between wells MW-001S and MW-002S. The result at MW-021S is anomalous in that only 2-chlorotoluene is detected there.

7.0 CONCLUSION

The quarterly sampling continued through the end of 2009. All monitoring locations met the MPS for all the COCs tested. Influent contamination as measured by the TTO to the GETS has decreased over time confirming the success of engineering efforts to reducing source contamination.

The next annual well sampling is scheduled for September 2010. However, the monitoring wells will continue to be sampled quarterly throughout 2010.

APPENDIX A

TABULATED

GROUNDWATER ELEVATION DATA

AND

POTENTIOMETRIC CONTOURS

BASF CORPORATION
(FORMERLY CIBA-GEIGY CORPORATION)
180 MILL STREET
CRANSTON, RI

GROUNDWATER MONITORING

| Monitoring Well | TOC MSL Feet | TOC to Water Feet | October 13, 2009 | Septmeber 30, 1993 |
|-----------------|--------------------|-------------------------|-----------------------------|-----------------------------|
| | | | GW ELEVATION MSL Feet | GW ELEVATION MSL Feet |
| PW-110 | 15.72 | 17.47 | 7.32 | NA |
| PW-120 | 14.25 | 13.70 | -3.15 | NA |
| PW-130 | 16.59 | 20.10 | 2.49 | NA |
| MW-001S | 15.04 | 8.38 | 8.54 | 9.39 |
| MW-002S | 14.46 | 8.68 | 7.21 | 9.21 |
| MW-003S | 16.61 | 8.35 | 10.24 | 7.96 |
| MW-004S | 21.29 | 12.04 | 12.43 | 10.72 |
| MW-010S | 22.62 | 12.30 | 12.57 | 11.34 |
| MW-012S | 22.54 | 12.50 | 12.22 | 10.54 |
| MW-013S | 18.44 | 10.10 | 11.94 | 9.83 |
| MW-020S | 21.94 | 11.44 | 15.69 | 11.53 |
| MW-022S | 16.87 | 8.25 | 9.77 | 9.63 |
| MW-023S | 20.71 | dry | 10.59 | 9.41 |
| MW-024S | 21.04 | dry | 12.35 | 10.89 |
| MW-034S | 18.85 | 9.20 | 11.38 | 10.4 |
| P-001S | 16.41 | 10.00 | 9.51 | 9.17 |
| P-002S | 13.85 | 7.90 | 5.27 | 8.38 |
| P-003S | 15.45 | 8.27 | 7.98 | 7.09 |
| P-004S | 19.92 | 10.10 | 12.40 | 11.07 |
| P-005S | 21.18 | 11.90 | 11.55 | 10.68 |
| P-006S | 23.62 | 13.85 | 12.10 | 10.39 |
| P-034S | 17.15 | 8.25 | 9.83 | 10.12 |
| P-035S | 15.32 | 9.70 | 6.74 | 8.51 |
| P-036S | 15.91 | 10.00 | 7.42 | 8.62 |
| P-037S | 15.69 | 10.05 | 9.19 | 8.96 |
| P-038S | 16.19 | 8.52 | 9.30 | 8.74 |

NA - Not Available

Figure 2
BASF Corporation

**CRANSTON, RI FACILITY
FORMER PRODUCTION AREA**

**Pre-Pump & Treat Potentiometric Surface Map
September 30, 1993**

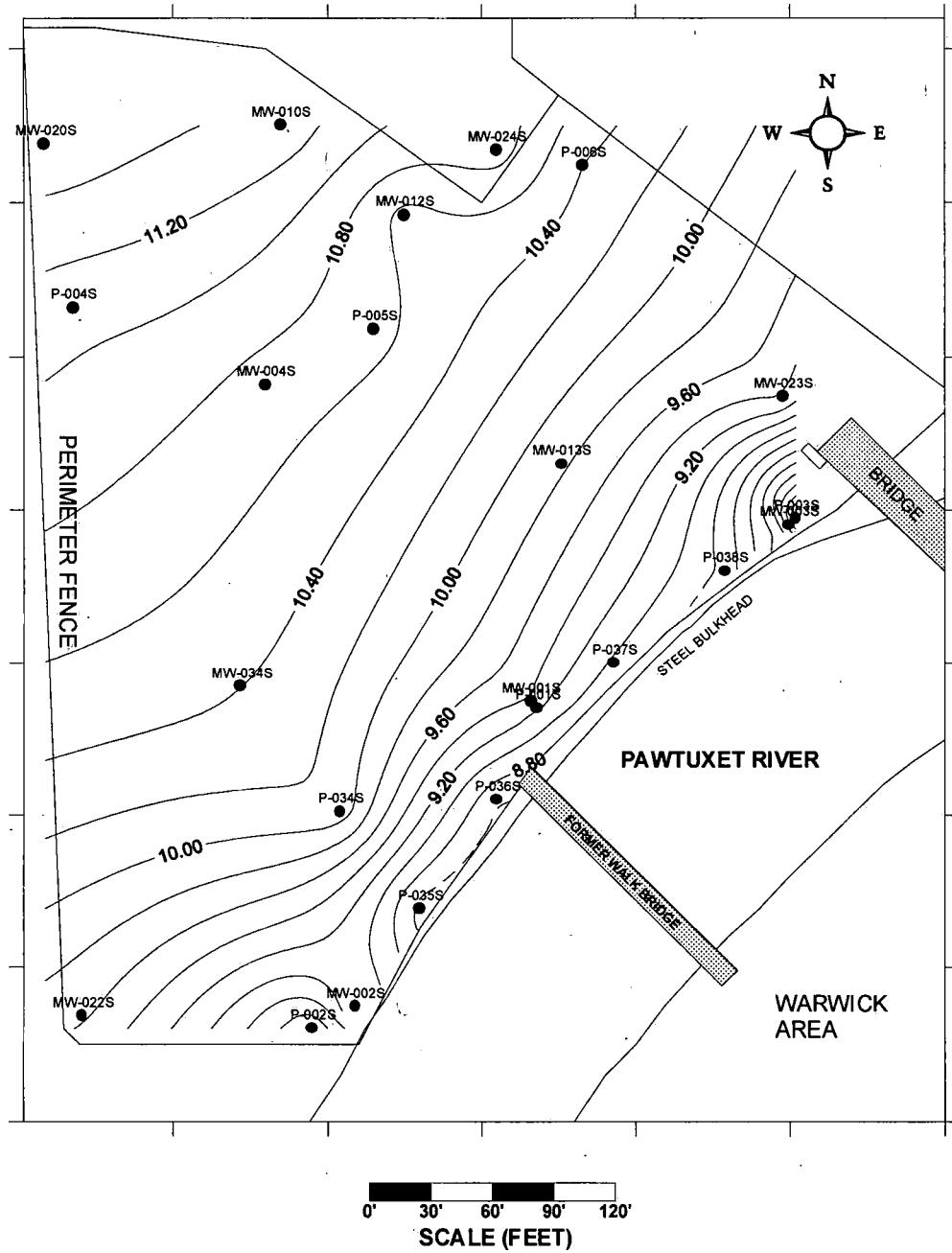
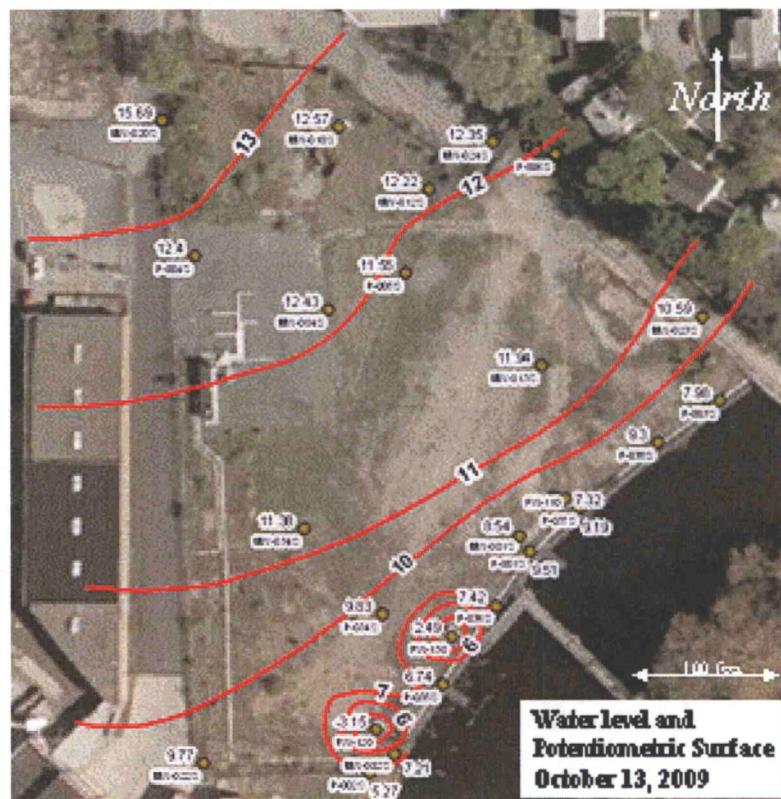


Figure 3

BASF Corporation

Cranston RI Facility Former Production Area



APPENDIX B
TIME-SERIES
FOR
UPGRADIENT WELLS

Table 3
UPGRADIENT WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

| Well No. MPS | Date Sampled | 1,2-Dichloro- benzene → 94 | Chloro- benzene 1700 | o-Chloro- toluene 1500 | Toluene 1700 | Xylenes 76 |
|-----------------|-----------------|----------------------------------|----------------------------|------------------------------|-----------------|---------------|
| MW-004S | 6-Mar-96 | 89 | 210 | 1700 | 2100 | 300 |
| MW-004S | 1-May-96 | 88 | 130 | 1200 | 1500 | 160 |
| MW-004S | 9-Apr-97 | 43 | 44 | 160 | 88 | 100 |
| MW-004S | 8-Oct-97 | 72 | 41 | 660 | 370 | 480 |
| MW-004S | 28-Apr-98 | 40 | 220 | 1200 | 2700 | 130 |
| MW-004S | 15-Oct-98 | 100 U | 580 | 300 | 100 U | 100 U |
| MW-004S | 16-Apr-99 | 50 U | 50 U | 50 | 50 U | 730 |
| MW-004S | 27-Sep-99 | 31 | 93 | 400 | 20 U | 79 |
| MW-004S | 20-Apr-00 | 74 | 170 | 20 U | 84 | 20 U |
| MW-004S | 22-Sep-00 | 30 U | 240 | 30 U | 30 U | 30 U |
| MW-004S | 19-Apr-01 | 1 U | 1 | 36 | 1 U | 2 |
| MW-004S | 18-Oct-01 | 2 | 5 | 20 | 1 U | 1 |
| MW-004S | 5-Apr-02 | 1 U | 1 | 1 U | 1 U | 1 U |
| MW-004S | 11-Oct-02 | 1 U | 1 U | 5 | 1 U | 1 U |
| MW-004S | 2-Apr-03 | 1 U | 3 | 5 | 66 | 4 |
| MW-004S | 2-Oct-03 | 6 | 11 | 72 | 1 U | 4 |
| MW-004S | 17-Oct-04 | 10 U | 12 | 90 | 10 U | 10 U |
| MW-004S | 11-Apr-05 | 38 | 180 | 280 | 1 U | 13 |
| MW-004S | 19-Jun-06 | 3 | 4 | 92 | 1 U | 3 |
| MW-004S | 6-Jul-06 | 4 | 7 | 94 | 1 U | 3 |
| MW-004S | 14-Aug-06 | 1 U | 1 | 26 | 1 U | 1 U |
| MW-004S | 6-Sep-06 | 1 U | 1 | 1 | 1 U | 1 U |
| MW-004S | 10-Oct-06 | 1 U | 120 | 10 | 1 U | 1 U |
| MW-004S | 6-Nov-06 | 7 | 180 | 30 | 1 U | 4 |
| MW-004S | 6-Dec-06 | 1 U | 1500 | 1 U | 4 | 24 |
| MW-004S | 12-Mar-07 | 1 U | 1 U | 2 | 1 U | 1 U |
| MW-004S | 5-Apr-07 | 5 | 27 | 72 | 1 U | 4 |
| MW-004S | 4-Jun-07 | 1 U | 1 | 11 | 1 U | 1 U |
| MW-004S | 6-Sep-07 | 1 | 1 U | 37 | 1 U | 1 |
| MW-004S | 7-Dec-07 | 1 U | 25 | 5 | 1 U | 1 U |
| MW-004S | 13-Mar-08 | 34 | 130 | 140 | 3 | 9 |
| MW-004S | 13-Jun-08 | 1 U | 3 | 1 | 1 U | 1 U |
| MW-004S | 12-Sep-08 | 1 U | 5 | 6 | 1 U | 3 |
| MW-004S | 11-Dec-08 | 1 | 7 | 5 | 1 U | 1 U |
| MW-004S | 17-Mar-09 | 5 | 54 | 16 | 1 U | 1 U |
| MW-004S | 12-Jun-09 | 1 U | 1 U | 2 | 1 U | 1 U |
| MW-004S | 11-Sep-09 | 1 U | 5 | 4 | 1 U | 1 U |
| MW-004S | 14-Dec-09 | 22 | 94 | 94 | 1 U | 4 |
| MW-012S | 5-Mar-96 | 4.3 U | 2.4 J | 2 U | 2.8 U | 75 |
| MW-012S | 2-May-96 | 4.3 U | 1.5 J | 2 U | 2.8 U | 42 |
| MW-012S | 10-Apr-97 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 8-Oct-97 | 1 U | 1 U | 1 U | 1 U | 12 |
| MW-012S | 28-Apr-98 | 1 U | 1 U | 1 U | 1 U | 65 |
| MW-012S | 15-Oct-98 | 10 U | 10 U | 10 U | 10 U | 87 |
| MW-012S | 16-Apr-99 | 10 U | 12 | 10 U | 10 U | 24 |
| MW-012S | 27-Sep-99 | 58 | 1 U | 1 U | 1 U | 6 |
| MW-012S | 20-Apr-00 | 1 U | 1 U | 1 U | 1 U | 1 |
| MW-012S | 22-Sep-00 | 1 U | 2 | 1 U | 1 U | 1 |
| MW-012S | 18-Apr-01 | 1 U | 1 U | 1 U | 1 U | 25 |
| MW-012S | 18-Oct-01 | 1 U | 3 | 1 U | 1 U | 1 U |
| MW-012S | 5-Apr-02 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 11-Oct-02 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 2-Apr-03 | 1 U | 1 U | 1 U | 1 U | 2 |
| MW-012S | 2-Oct-03 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 17-Oct-04 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 11-Apr-05 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 19-Jun-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 6-Jul-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 14-Aug-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 6-Sep-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 10-Oct-06 | 1 U | 49 | 4 | 1 U | 1 U |
| MW-012S | 6-Nov-06 | 1 U | 24 | 3 | 1 U | 1 U |
| MW-012S | 6-Dec-06 | 1 U | 31 | 3 | 1 U | 1 U |

Table 3 - Continued
UPGRADIENT WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

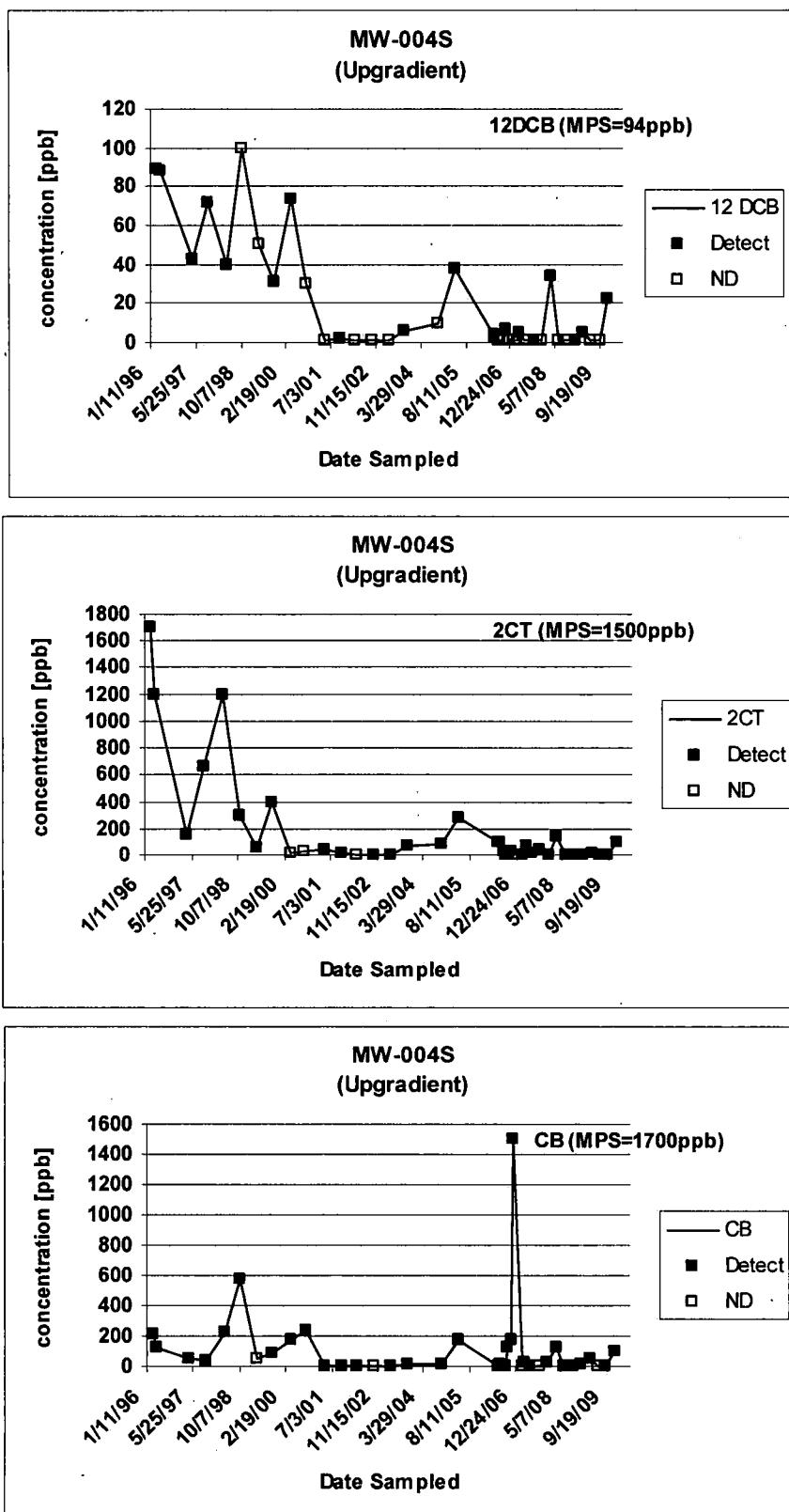
| Well No. | Date Sampled | 1,2-Dichloro-benzene | Chloro-benzene | o-Chloro-toluene | Toluene | Xylenes |
|----------|--------------|----------------------|----------------|------------------|---------|---------|
| MPS | | 94 | 1700 | 1500 | 1700 | 76 |
| MW-012S | 12-Mar-07 | 1 | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 5-Apr-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 4-Jun-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 6-Sep-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 7-Dec-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 13-Mar-08 | 1 U | 1 U | 1 U | 1 U | 3 |
| MW-012S | 13-Jun-08 | 1 U | 1 U | 1 | 1 U | 1 U |
| MW-012S | 11-Sep-08 | 1 U | 1 U | 3 | 1 U | 1 U |
| MW-012S | 11-Dec-08 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 17-Mar-09 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 12-Jun-09 | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-012S | 11-Sep-09 | 1 U | 5 | 1 U | 1 U | 1 U |
| MW-012S | 11-Dec-09 | 1 U | 2 | 1 U | 1 U | 1 U |
| MW-021S | 6-Mar-96 | 43 U | 30 U | 480 | 12 J | 34 U |
| MW-021S | 1-May-96 | 22 U | 5 J | 820 | 15 | 17 U |
| MW-021S | 10-Apr-97 | 1 U | 1 U | 120 | 1 | 6 |
| MW-021S | 27-Oct-97 | 30 | 49 | 24000 | 20000 | 1600 |
| MW-021S | 28-Apr-98 | 1 U | 1 U | 54 | 1 U | 1 U |
| MW-021S | 15-Oct-98 | 100 U | 100 U | 7900 | 2500 | 580 |
| MW-021S | 15-Apr-99 | 50 U | 50 U | 9000 | 50 U | 520 |
| MW-021S | 27-Sep-99 | 40 U | 40 U | 8100 | 40 U | 110 |
| MW-021S | 20-Apr-00 | 40 U | 40 U | 11000 | 40 U | 40 U |
| MW-021S | 22-Sep-00 | 500 U | 500 U | 16000 | 500 U | 500 U |
| MW-021S | 19-Apr-01 | 10 U | 10 U | 440 | 10 U | 10 U |
| MW-021S | 18-Oct-01 | 50 U | 50 U | 12000 | 270 | 210 |
| MW-021S | 5-Apr-02 | 10 U | 10 U | 420 | 10 U | 10 U |
| MW-021S | 11-Oct-02 | 2 | 2 | 940 | 6 | 38 |
| MW-021S | 2-Apr-03 | 1 U | 1 U | 72 | 1 U | 1 |
| MW-021S | 3-Oct-03 | 6 | 10 | 3300 | 38 | 72 |
| MW-021S | 18-Oct-04 | 1 U | 1 U | 170 | 1 U | 1 U |
| MW-021S | 12-Apr-05 | 1 U | 2 | 100 | 1 U | 1 |
| MW-021S | 19-Jun-06 | 1 U | 1 U | 890 | 4 | 2 |
| MW-021S | 6-Jul-06 | 1 U | 34 | 880 | 1 U | 1 U |
| MW-021S | 14-Aug-06 | 1 U | 1 U | 2200 | 1 U | 1 U |
| MW-021S | 6-Sep-06 | 1 U | 1 U | 1800 | 1 U | 1 U |
| MW-021S | 6-Oct-06 | 1 U | 1 U | 1800 | 1 U | 1 U |
| MW-021S | 6-Nov-06 | 1 U | 18 | 420 | 1 U | 1 U |
| MW-021S | 6-Dec-06 | 1 U | 21 | 330 | 1 U | 1 U |
| MW-021S | 12-Mar-07 | 1 U | 1 U | 180 | 1 U | 1 U |
| MW-021S | 5-Apr-07 | 1 U | 1 U | 120 | 1 U | 1 U |
| MW-021S | 4-Jun-07 | 1 U | 1 U | 640 | 1 U | 1 U |
| MW-021S | 6-Sep-07 | 1 U | 16 | 2000 | 1 U | 1 U |
| MW-021S | 7-Dec-07 | 1 U | 22 | 1200 | 1 U | 1 U |
| MW-021S | 13-Mar-08 | 1 U | 1 U | 62 | 1 U | 1 U |
| MW-021S | 13-Jun-08 | 2 | 1 U | 1600 | 6 | 16 |
| MW-021S | 12-Sep-08 | 1 U | 1 U | 330 | 1 U | 10 |
| MW-021S | 11-Dec-08 | 1 U | 1 U | 680 | 1 U | 1 U |
| MW-021S | 17-Mar-09 | 1 U | 1 U | 200 | 1 U | 1 U |
| MW-021S | 12-Jun-09 | 10 U | 10 U | 1000 | 10 U | 10 U |
| MW-021S | 11-Sep-09 | 1 | 1 | 840 | 2 | 4 |
| MW-021S | 14-Dec-09 | 1 U | 1 U | 2 | 1 U | 1 U |

MPS = Media Protection Standard

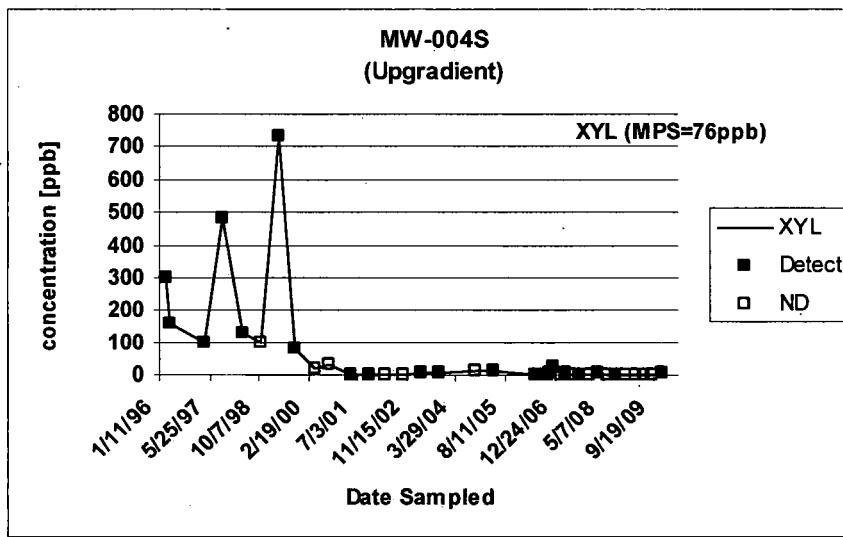
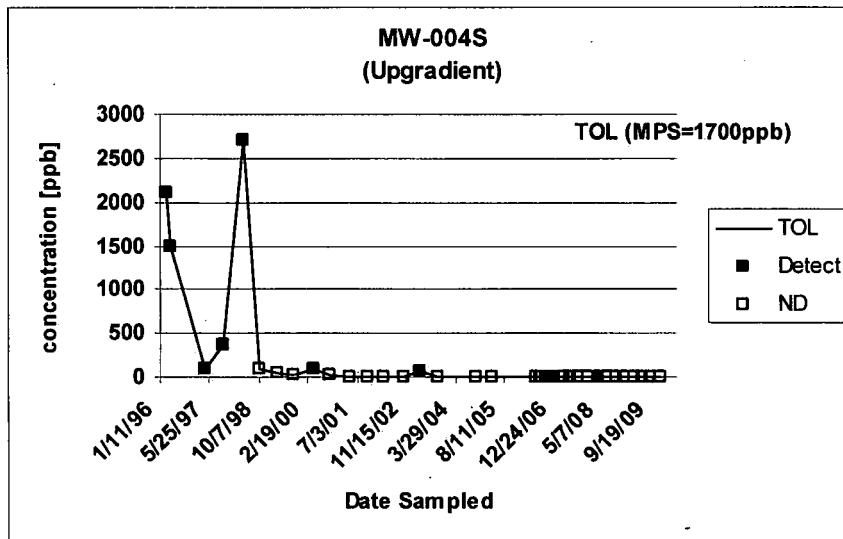
U = Nondetect with detection limit given

J = Estimated value

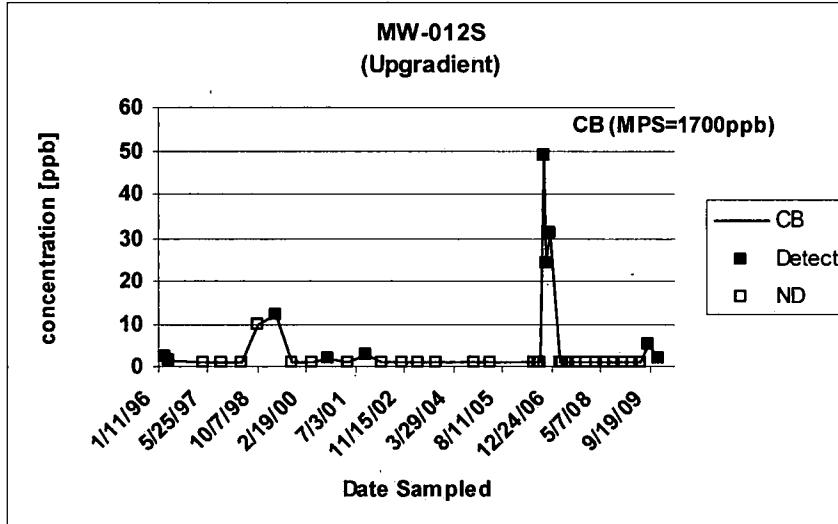
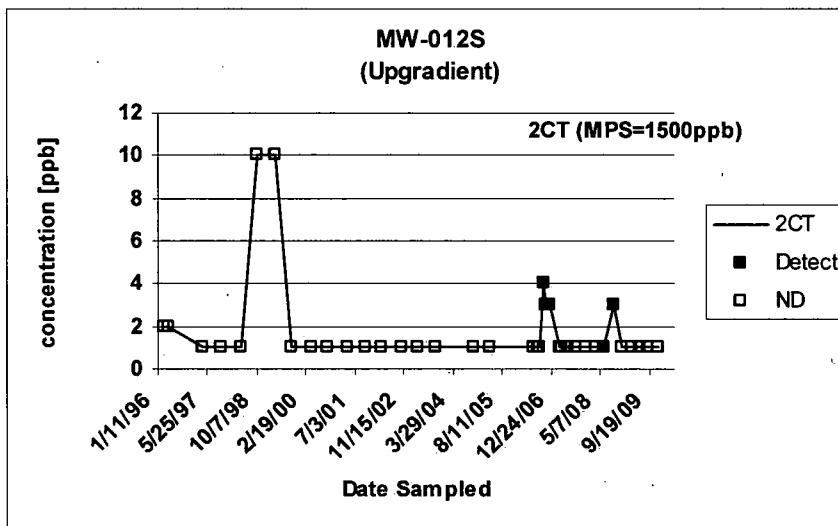
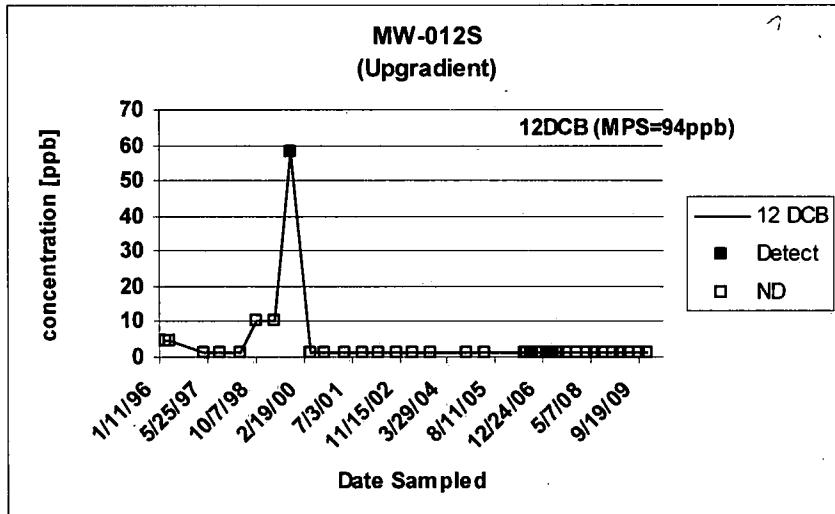
BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



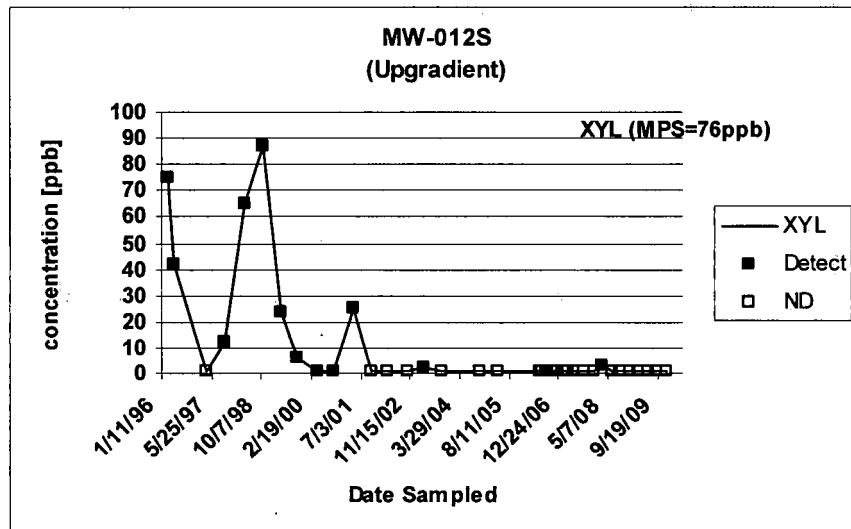
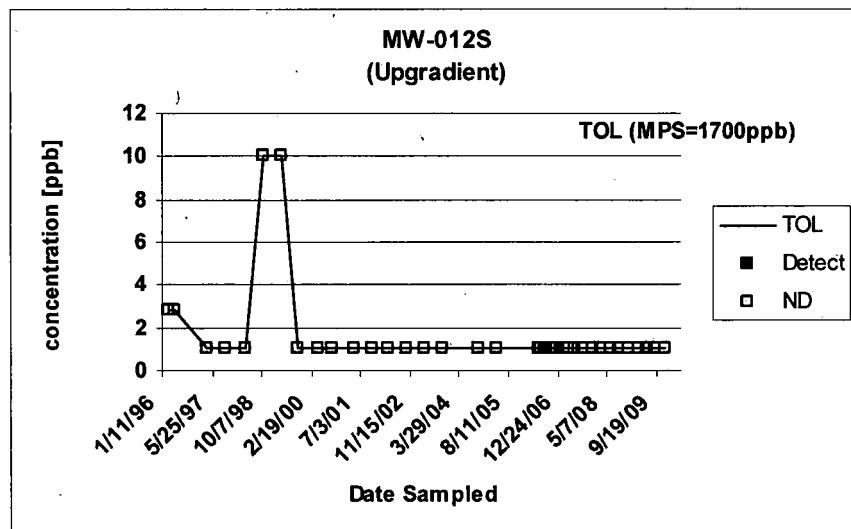
BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



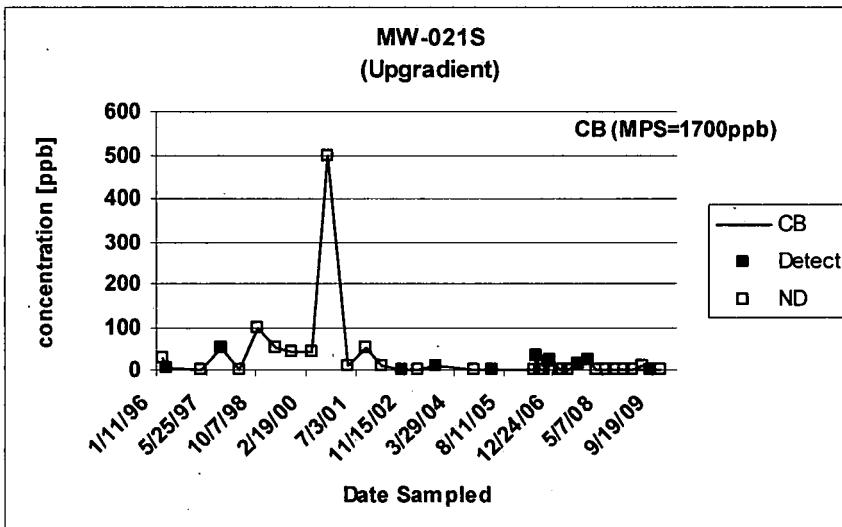
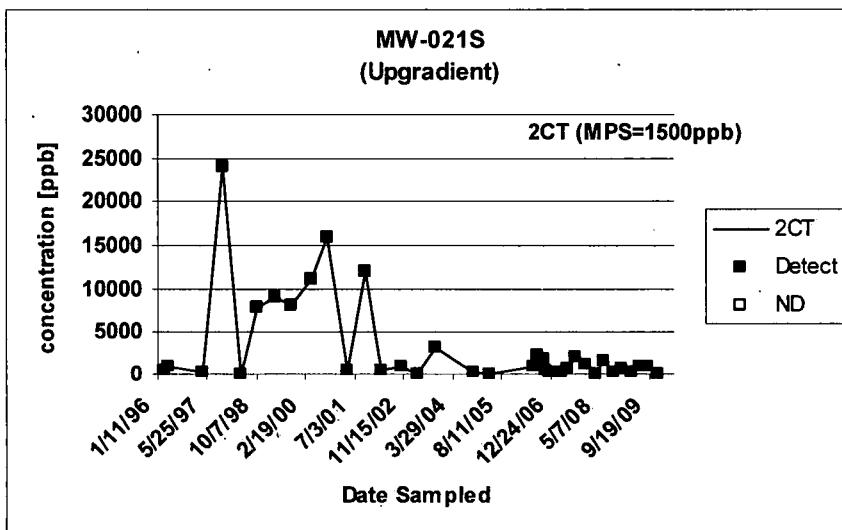
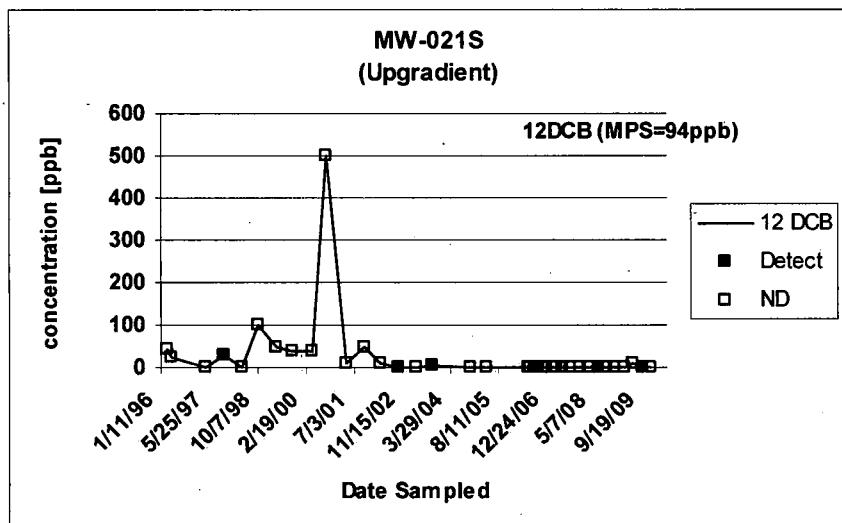
BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



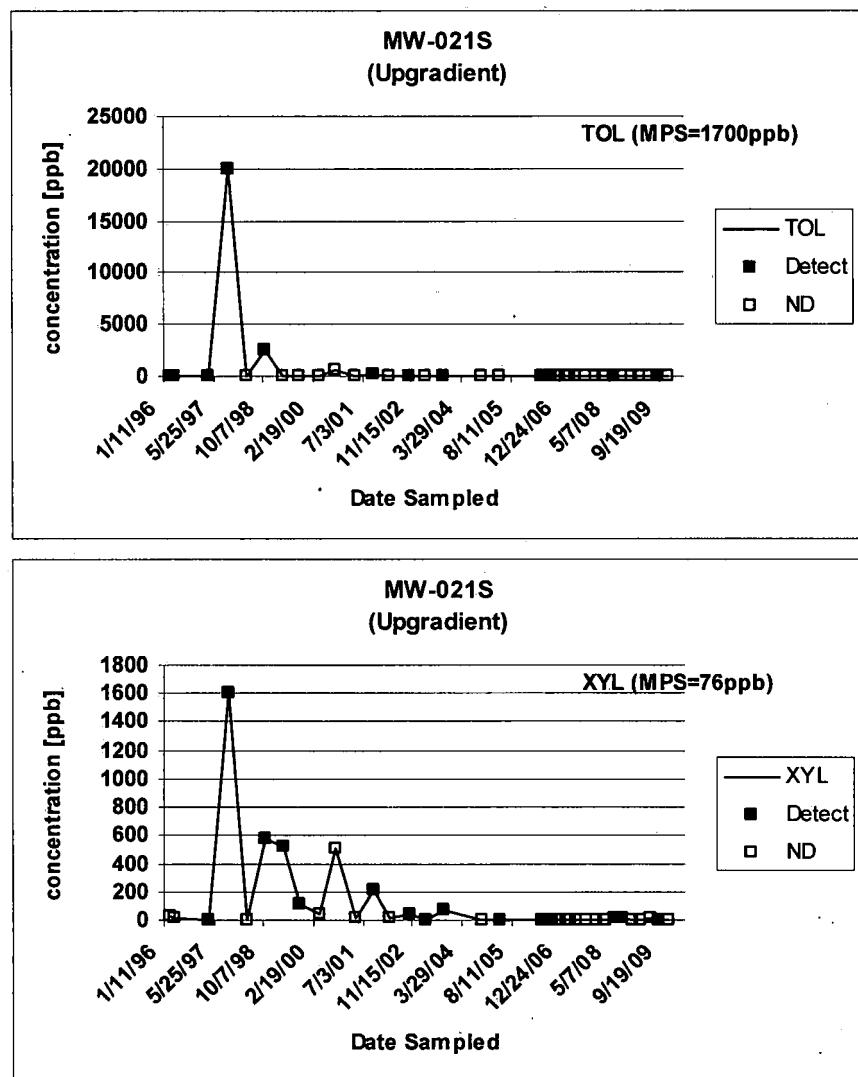
BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



BASF CORPORATION
CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



APPENDIX C
TIME-SERIES GRAPHS
FOR
BULKHEAD WELLS

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

| Well No. | Date Sampled | 1,2-Dichloro-benzene | Chloro-benzene | o-Chloro-toluene | Toluene | Xylenes |
|----------|--------------|----------------------|----------------|------------------|---------|---------|
| MPS | | 94 | 1700 | 1500 | 1700 | 76 |
| MW-001S | 6-Mar-96 | 22 U | 2000 | 10 U | 16 | 18 |
| MW-001S | 1-May-96 | 110 U | 5500 | 50 U | 30 J | 85 U |
| MW-001S | 10-Apr-97 | 1 | 93 | 1 U | 9 | 7 |
| MW-001S | 7-Oct-97 | 1 | 640 | 30 | 23 | 2 |
| MW-001S | 27-Apr-98 | 1 U | 2800 | 1 U | 1 | 2 |
| MW-001S | 15-Oct-98 | 100 U | 2800 | 100 U | 100 U | 100 U |
| MW-001S | 15-Apr-99 | 50 U | 50 U | 50 U | 50 U | 50 U |
| MW-001S | 27-Sep-99 | 40 U | 2300 | 40 U | 40 U | 40 U |
| MW-001S | 20-Apr-00 | 40 U | 40 U | 40 U | 40 U | 40 U |
| MW-001S | 21-Sep-00 | 450 | 2500 | 1 U | 1 U | 1 U |
| MW-001S | 18-Apr-01 | 10 U | 1600 | 10 U | 10 U | 10 U |
| MW-001S | 18-Oct-01 | 10 U | 1700 | 10 U | 10 U | 10 U |
| MW-001S | 4-Apr-02 | 10 U | 1700 | 10 U | 10 U | 10 U |
| MW-001S | 11-Oct-02 | 10 U | 1800 | 10 U | 10 U | 10 U |
| MW-001S | 2-Apr-03 | 10 U | 320 | 10 U | 10 U | 10 U |
| MW-001S | 2-Oct-03 | 10 U | 1300 | 10 U | 10 U | 10 U |
| MW-001S | 17-Oct-04 | 10 U | 1000 | 10 U | 10 U | 10 U |
| MW-001S | 11-Apr-05 | 1 U | 410 | 10 U | 10 U | 50 U |
| MW-001S | 19-Jun-06 | 1 U | 1100 | 1 U | 1 U | 1 U |
| MW-001S | 6-Jul-06 | 1 U | 700 | 1 U | 1 U | 1 U |
| MW-001S | 14-Aug-06 | 1 U | 1400 | 1 U | 1 U | 1 U |
| MW-001S | 6-Sep-06 | 1 U | 1400 | 1 U | 1 U | 1 U |
| MW-001S | 10-Oct-06 | 1 U | 1600 | 1 U | 1 U | 13 |
| MW-001S | 6-Nov-06 | 1 U | 1600 | 1 U | 1 U | 1 U |
| MW-001S | 6-Dec-06 | 1 U | 87 | 60 | 1 U | 4 |
| MW-001S | 12-Mar-07 | 1 U | 1700 | 1 U | 1 U | 33 |
| MW-001S | 5-Apr-07 | 1 U | 1400 | 1 U | 1 U | 1 U |
| MW-001S | 4-Jun-07 | 1 U | 1600 | 1 U | 1 U | 29 |
| MW-001S | 6-Sep-07 | 1 U | 1600 | 1 U | 1 U | 20 |
| MW-001S | 6-Dec-07 | 1 U | 1400 | 10 | 1 U | 1 U |
| MW-001S | 12-Mar-08 | 1 U | 210 | 1 U | 1 U | 1 U |
| MW-001S | 12-Jun-08 | 1 U | 1600 | 1 U | 3 | 50 |
| MW-001S | 11-Sep-08 | 1 U | 1500 | 3 | 4 | 3 |
| MW-001S | 10-Dec-08 | 1 U | 1400 | 1 U | 1 U | 43 |
| MW-002S | 5-Mar-96 | 340 | 3200 | 50 U | 200 | 85 U |
| MW-002S | 30-Apr-96 | 44 J | 2500 | 50 U | 52 J | 85 U |
| MW-002S | 8-Apr-97 | 20 | 64 | 1 U | 46 | 18 |
| MW-002S | 7-Oct-97 | 90 | 440 | 100 | 97 | 31 |
| MW-002S | 27-Apr-98 | 22 | 500 | 1 U | 88 | 28 |
| MW-002S | 15-Oct-98 | 28 | 5200 | 1 U | 92 | 34 |
| MW-002S | 15-Apr-99 | 140 | 2260 | 10 U | 420 | 33 |
| MW-002S | 27-Sep-99 | 43 | 2800 | 40 U | 40 U | 40 U |
| MW-002S | 20-Apr-00 | 1340 | 12000 | 150 | 830 | 120 |
| MW-002S | 21-Sep-00 | 930 | 9400 | 500 U | 500 U | 500 U |
| MW-002S | 18-Apr-01 | 50 U | 1400 | 50 U | 95 | 50 U |
| MW-002S | 18-Oct-01 | 1800 | 12000 | 170 | 120 | 33 |
| MW-002S | 5-Apr-02 | 360 | 4700 | 100 U | 230 | 50 U |
| MW-002S | 11-Oct-02 | 360 | 8800 | 50 U | 140 | 50 U |
| MW-002S | 3-Apr-03 | 66 | 2000 | 50 U | 200 | 50 U |
| MW-002S | 3-Oct-03 | 500 | 7000 | 50 U | 120 | 50 U |
| MW-002S | 17-Oct-04 | 50 U | 1600 | 58 | 110 | 50 U |
| MW-002S | 11-Apr-05 | 50 U | 2800 | 50 U | 160 | 50 U |
| MW-002S | 26-Jul-05 | 31 | 740 | 82 | 15 | 13 |
| MW-002S | 26-Aug-05 | 29 | 740 | 69 | 15 | 10 U |
| MW-002S | 26-Sep-05 | 1 U | 1 | 1 U | 1 U | 1 U |
| MW-002S | 11-Nov-05 | 30 | 1700 | 42 | 79 | 21 |
| MW-002S | 28-Dec-05 | 22 | 1100 | 38 | 73 | 10 U |
| MW-002S | 19-Jun-06 | 1 U | 850 | 1 U | 46 | 1 U |
| MW-002S | 6-Jul-06 | 1 U | 1100 | 1 U | 120 | 1 U |
| MW-002S | 14-Aug-06 | 23 | 1200 | 43 | 76 | 1 U |
| MW-002S | 6-Sep-06 | 14 | 1100 | 27 | 68 | 1 U |
| MW-002S | 10-Oct-06 | 24 | 1400 | 54 | 70 | 1 U |

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

| Well No. MPS | Date Sampled → | 1,2-Dichloro- benzene 94 | Chloro- benzene 1700 | o-Chloro- toluene 1500 | Toluene 1700 | Xylenes 76 |
|-----------------|-------------------|--------------------------------|----------------------------|------------------------------|-----------------|---------------|
| MW-002S | 6-Nov-06 | 1 U | 280 | 1 U | 1 U | 1 U |
| MW-002S | 6-Dec-06 | 4 | 190 | 7 | 3 | 1 U |
| MW-002S | 12-Mar-07 | 13 | 1000 | 1 U | 57 | 1 U |
| MW-002S | 5-Apr-07 | 2 | 100 | 1 U | 1 | 1 U |
| MW-002S | 4-Jun-07 | 4 | 200 | 1 | 3 | 1 U |
| MW-002S | 6-Sep-07 | 140 | 1200 | 140 | 13 | 14 |
| MW-002S | 7-Dec-07 | 18 | 1200 | 25 | 5 | 6 |
| MW-002S | 12-Mar-08 | 1 U | 940 | 1 U | 38 | 1 U |
| MW-002S | 12-Jun-08 | 25 | 1300 | 72 | 66 | 12 |
| MW-002S | 11-Sep-08 | 14 | 680 | 38 | 24 | 1 |
| MW-002S | 10-Dec-08 | 11 | 1100 | 37 | 58 | 1 U |
| P-035S | 8-Apr-97 | 22 | 74 | 1 U | 4 | 12 |
| P-035S | 7-Oct-97 | 240 | 710 | 2 | 10 | 12 |
| P-035S | 27-Apr-98 | 42 | 360 | 1 U | 2 | 10 |
| P-035S | 15-Oct-98 | 140 | 2100 | 10 U | 130 | 80 |
| P-035S | 15-Apr-99 | 20 | 480 | 10 U | 10 U | 10 U |
| P-035S | 27-Sep-99 | 40 U | 40 U | 40 U | 40 U | 40 U |
| P-035S | 20-Apr-00 | 4580 | 77000 | 300 | 160 | 56 |
| P-035S | 21-Sep-00 | 6600 | 11000 | 500 U | 500 U | 500 U |
| P-035S | 18-Apr-01 | 2000 | 2100 | 67 | 50 U | 50 U |
| P-035S | 18-Oct-01 | 9000 | 11000 | 310 | 81 | 34 |
| P-035S | 4-Apr-02 | 9600 | 8800 | 380 | 100 U | 50 U |
| P-035S | 11-Oct-02 | 1300 | 970 | 79 | 10 U | 10 U |
| P-035S | 3-Apr-03 | 97 | 280 | 11 | 10 U | 10 U |
| P-035S | 3-Oct-03 | 240 | 610 | 67 | 10 U | 10 U |
| P-035S | 17-Oct-04 | 18 | 200 | 130 | 10 U | 10 U |
| P-035S | 12-Apr-05 | 10 U | 460 | 10 U | 10 U | 10 U |
| P-035S | 26-Aug-05 | 10 U | 300 | 110 | 10 U | 10 U |
| P-035S | 26-Sep-05 | 19 | 750 | 54 | 28 | 10 U |
| P-035S | 29-Nov-05 | 18 | 480 | 84 | 10 U | 12 |
| P-035S | 28-Dec-05 | 11 | 260 | 58 | 10 | 10 U |
| P-035S | 19-Jun-06 | 13 | 530 | 88 | 1 U | 1 U |
| P-035S | 6-Jul-06 | 13 | 1900 | 100 | 1 U | 1 U |
| P-035S | 14-Aug-06 | 1 U | 1700 | 100 | 1 U | 1 U |
| P-035S | 6-Sep-06 | 27 | 2400 | 140 | 1 U | 1 U |
| P-035S | 10-Oct-06 | 41 | 5800 | 170 | 1 U | 1 U |
| P-035S | 6-Nov-06 | 69 | 5600 | 180 | 1 U | 1 U |
| P-035S | 6-Dec-06 | 72 | 6200 | 190 | 1 U | 1 U |
| P-035S | 12-Mar-07 | 67 | 3000 | 140 | 1 U | 1 U |
| P-035S | 5-Apr-07 | 50 | 5100 | 120 | 1 U | 1 U |
| P-035S | 4-Jun-07 | 81 | 8200 | 120 | 1 U | 1 U |
| P-035S | 6-Sep-07 | 20 | 760 | 100 | 1 U | 1 U |
| P-035S | 6-Dec-07 | 1 U | 390 | 49 | 1 U | 1 U |
| P-035S | 12-Mar-08 | 10 | 280 | 65 | 1 | 8 |
| P-035S | 12-Jun-08 | 9 | 350 | 120 | 1 U | 4 |
| P-035S | 11-Sep-08 | 9 | 190 | 76 | 1 U | 12 |
| P-035S | 10-Dec-08 | 1 U | 270 | 81 | 1 U | 1 U |
| P-036S | 6-Mar-96 | 22 U | 440 | 10 U | 14 U | 17 U |
| P-036S | 1-May-96 | 22 U | 460 | 30 | 14 U | 17 U |
| P-036S | 8-Apr-97 | 1 U | 72 | 1 U | 1 U | 2 |
| P-036S | 7-Oct-97 | 1 U | 35 | 9 | 2 | 1 U |
| P-036S | 27-Apr-98 | 1 U | 260 | 1 U | 1 U | 1 U |
| P-036S | 15-Oct-98 | 1 U | 230 | 1 U | 1 U | 1 |
| P-036S | 15-Apr-99 | 10 U | 200 | 10 U | 10 U | 10 U |
| P-036S | 27-Sep-99 | 10 U | 450 | 10 U | 10 U | 10 U |
| P-036S | 20-Apr-00 | 1 U | 290 | 1 U | 1 U | 1 U |
| P-036S | 21-Sep-00 | 30 U | 300 | 30 U | 30 U | 30 U |
| P-036S | 18-Apr-01 | 10 U | 280 | 10 U | 10 U | 10 U |
| P-036S | 18-Oct-01 | 1 U | 170 | 1 U | 1 U | 1 U |

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

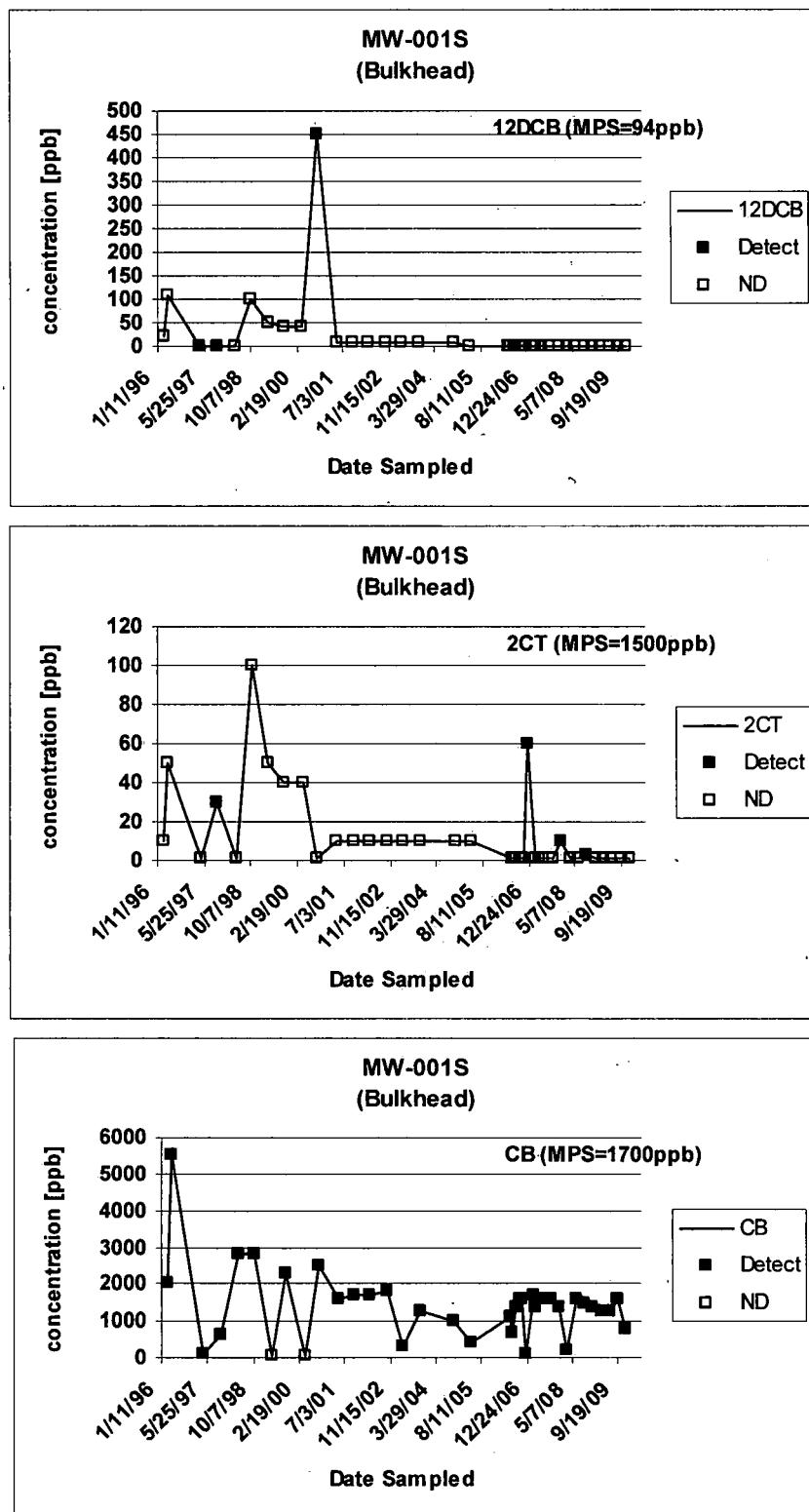
| Well No. | Date Sampled | 1,2-Dichloro- | Chloro- | o-Chloro- | Toluene | Xylenes |
|----------|--------------|---------------|---------|-----------|---------|---------|
| | | benzene | | | | |
| MPS | 94 | | 1700 | 1500 | 1700 | 76 |
| P-036S | 4-Apr-02 | 1 U | 230 | 1 U | 1 | 1 U |
| P-036S | 11-Oct-02 | 1 | 410 | 6 | 1 U | 1 U |
| P-036S | 3-Apr-03 | 10 U | 210 | 10 U | 10 U | 10 U |
| P-036S | 2-Oct-03 | 10 U | 420 | 10 U | 10 U | 10 U |
| P-036S | 17-Oct-04 | 10 U | 350 | 11 | 10 U | 10 U |
| P-036S | 12-Apr-05 | 12 | 220 | 31 | 10 U | 10 U |
| P-036S | 26-Aug-05 | 10 U | 1100 | 80 | 10 U | 10 U |
| P-036S | 26-Sep-05 | 1 U | 55 | 15 | 1 U | 1 U |
| P-036S | 29-Nov-05 | 10 U | 820 | 54 | 10 U | 10 U |
| P-036S | 28-Dec-05 | 1 | 17 | 18 | 1 U | 1 U |
| P-036S | 19-Jun-06 | 4 | 790 | 69 | 2 | 4 |
| P-036S | 6-Jul-06 | 1 U | 740 | 41 | 1 U | 1 U |
| P-036S | 14-Aug-06 | 1 U | 640 | 37 | 1 U | 1 U |
| P-036S | 6-Sep-06 | 1 U | 800 | 74 | 1 U | 1 U |
| P-036S | 10-Oct-06 | 1 U | 840 | 36 | 1 U | 1 U |
| P-036S | 6-Nov-06 | 1 U | 360 | 11 | 1 U | 1 U |
| P-036S | 6-Dec-06 | 1 U | 460 | 13 | 1 U | 1 U |
| P-036S | 12-Mar-07 | 1 U | 330 | 1 U | 1 U | 1 U |
| P-036S | 5-Apr-07 | 1 U | 300 | 1 U | 1 U | 1 U |
| P-036S | 4-Jun-07 | 1 U | 360 | 18 | 1 U | 1 U |
| P-036S | 6-Sep-07 | 1 U | 650 | 82 | 1 U | 1 U |
| P-036S | 6-Dec-07 | 1 U | 380 | 48 | 1 U | 1 U |
| P-036S | 12-Mar-08 | 2 | 300 | 14 | 1 U | 1 |
| P-036S | 12-Jun-08 | 5 | 630 | 73 | 1 U | 4 |
| P-036S | 11-Sep-08 | 4 | 540 | 45 | 1 U | 11 |
| P-036S | 10-Dec-08 | 1 U | 420 | 16 | 1 U | 1 U |
| P-037S | 9-Apr-97 | 2 U | 54 | 16 | 1 U | 1 |
| P-037S | 8-Oct-97 | 2 | 50 | 13 | 1 U | 1 U |
| P-037S | 28-Apr-98 | 2 | 420 | 8 | 1 U | 1 U |
| P-037S | 15-Oct-98 | 30 U | 540 | 30 U | 30 U | 30 U |
| P-037S | 15-Apr-99 | 10 U | 210 | 10 U | 10 U | 10 U |
| P-037S | 27-Sep-99 | 10 U | 660 | 10 U | 10 U | 10 U |
| P-037S | 20-Apr-00 | 1 U | 460 | 5 | 1 U | 1 U |
| P-037S | 21-Sep-00 | 30 U | 370 | 30 U | 30 U | 30 U |
| P-037S | 18-Apr-01 | 10 U | 330 | 10 U | 10 U | 10 U |
| P-037S | 18-Oct-01 | 2 | 240 | 1 U | 1 U | 1 U |
| P-037S | 4-Apr-02 | 10 U | 360 | 10 U | 10 U | 10 U |
| P-037S | 11-Oct-02 | 10 U | 420 | 10 U | 10 U | 10 U |
| P-037S | 2-Apr-03 | 10 U | 270 | 10 U | 10 U | 10 U |
| P-037S | 2-Oct-03 | 10 U | 350 | 10 U | 10 U | 10 U |
| P-037S | 16-Oct-04 | 10 U | 350 | 10 U | 10 U | 10 U |
| P-037S | 12-Apr-05 | 10 U | 220 | 10 U | 10 U | 10 U |
| P-037S | 26-Aug-05 | 2 | 82 | 35 | 1 U | 1 U |
| P-037S | 26-Sep-05 | 2 | 800 | 25 | 2 | 4 |
| P-037S | 29-Nov-05 | 1 | 36 | 20 | 1 U | 1 U |
| P-037S | 28-Dec-05 | 4 | 750 | 87 | 1 U | 7 |
| P-037S | 19-Jun-06 | 1 U | 9 | 18 | 1 U | 1 U |
| P-037S | 6-Jul-06 | 1 U | 10 | 17 | 1 U | 1 U |
| P-037S | 14-Aug-06 | 1 U | 9 | 20 | 1 U | 1 U |
| P-037S | 6-Sep-06 | 1 | 12 | 22 | 1 U | 1 U |
| P-037S | 10-Oct-06 | 2 | 210 | 25 | 1 U | 1 |
| P-037S | 6-Nov-06 | 1 U | 12 | 12 | 1 U | 1 U |
| P-037S | 6-Dec-06 | 1 U | 1 U | 16 | 1 U | 1 U |
| P-037S | 12-Mar-07 | 1 | 6 | 23 | 1 U | 1 U |
| P-037S | 5-Apr-07 | 2 | 8 | 37 | 1 U | 1 |
| P-037S | 4-Jun-07 | 2 | 8 | 40 | 1 U | 1 U |
| P-037S | 6-Sep-07 | 5 | 5 | 74 | 1 U | 1 |
| P-037S | 6-Dec-07 | 2 | 4 | 26 | 1 U | 1 U |
| P-037S | 12-Mar-08 | 2 | 8 | 21 | 1 U | 1 |
| P-037S | 12-Jun-08 | 4 | 7 | 97 | 1 U | 3 |
| P-037S | 11-Sep-08 | 1 U | 3 | 14 | 1 U | 1 U |
| P-037S | 10-Dec-08 | 1 U | 3 | 14 | 1 U | 3 |

Table 4
BULKHEAD WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

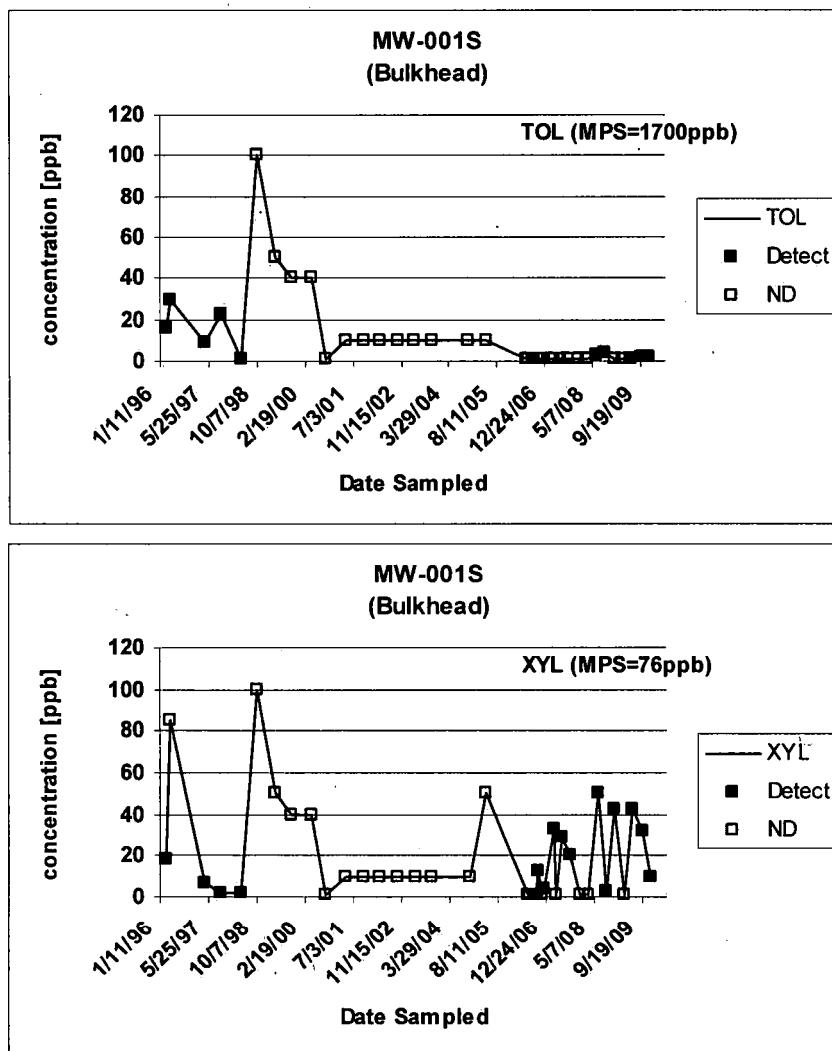
| Well No. | Date Sampled | 1,2-Dichloro-benzene | Chloro-benzene | o-Chloro-toluene | Toluene | Xylenes |
|----------|--------------|----------------------|----------------|------------------|---------|---------|
| MPS | | → 94 | 1700 | 1500 | 1700 | 76 |
| P-038S | 6-Mar-96 | 4.3 U | 2.4 J | 2 U | 1.3 J | 3.4 U |
| P-038S | 1-May-96 | 4.3 U | 1.2 J | 2 U | 2.8 U | 3.4 U |
| P-038S | 9-Apr-97 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 8-Oct-97 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 28-Apr-98 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 15-Oct-98 | 1 U | 2 | 1 U | 1 U | 1 U |
| P-038S | 15-Apr-99 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 27-Sep-99 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 20-Apr-00 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 21-Sep-00 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 18-Apr-01 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 18-Oct-01 | 1 U | 6 | 1 U | 1 U | 1 U |
| P-038S | 4-Apr-02 | 1 U | 2 | 1 U | 1 U | 1 U |
| P-038S | 11-Oct-02 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 2-Apr-03 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 2-Oct-03 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 16-Oct-04 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 11-Apr-05 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 26-Aug-05 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 26-Sep-05 | 16 | 460 | 80 | 2 | 11 |
| P-038S | 29-Nov-05 | 1 U | 2 | 1 U | 1 U | 1 U |
| P-038S | 28-Dec-05 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 19-Jun-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 6-Jul-06 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 14-Aug-06 | 1 U | 9 | 1 U | 1 U | 1 U |
| P-038S | 6-Sep-06 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 10-Oct-06 | 1 U | 97 | 5 | 1 U | 1 U |
| P-038S | 6-Nov-06 | 1 U | 1 | 1 U | 1 U | 1 U |
| P-038S | 6-Dec-06 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 12-Mar-07 | 1 U | 1 U | 1 | 1 U | 1 U |
| P-038S | 5-Apr-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 4-Jun-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 6-Sep-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 6-Dec-07 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 12-Mar-08 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 12-Jun-08 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 11-Sep-08 | 1 U | 1 U | 1 U | 1 U | 1 U |
| P-038S | 10-Dec-08 | 1 U | 1 U | 1 U | 1 U | 1 U |

MPS = Media Protection Standard
U = Nondetect with detection limit given
J = Estimated value

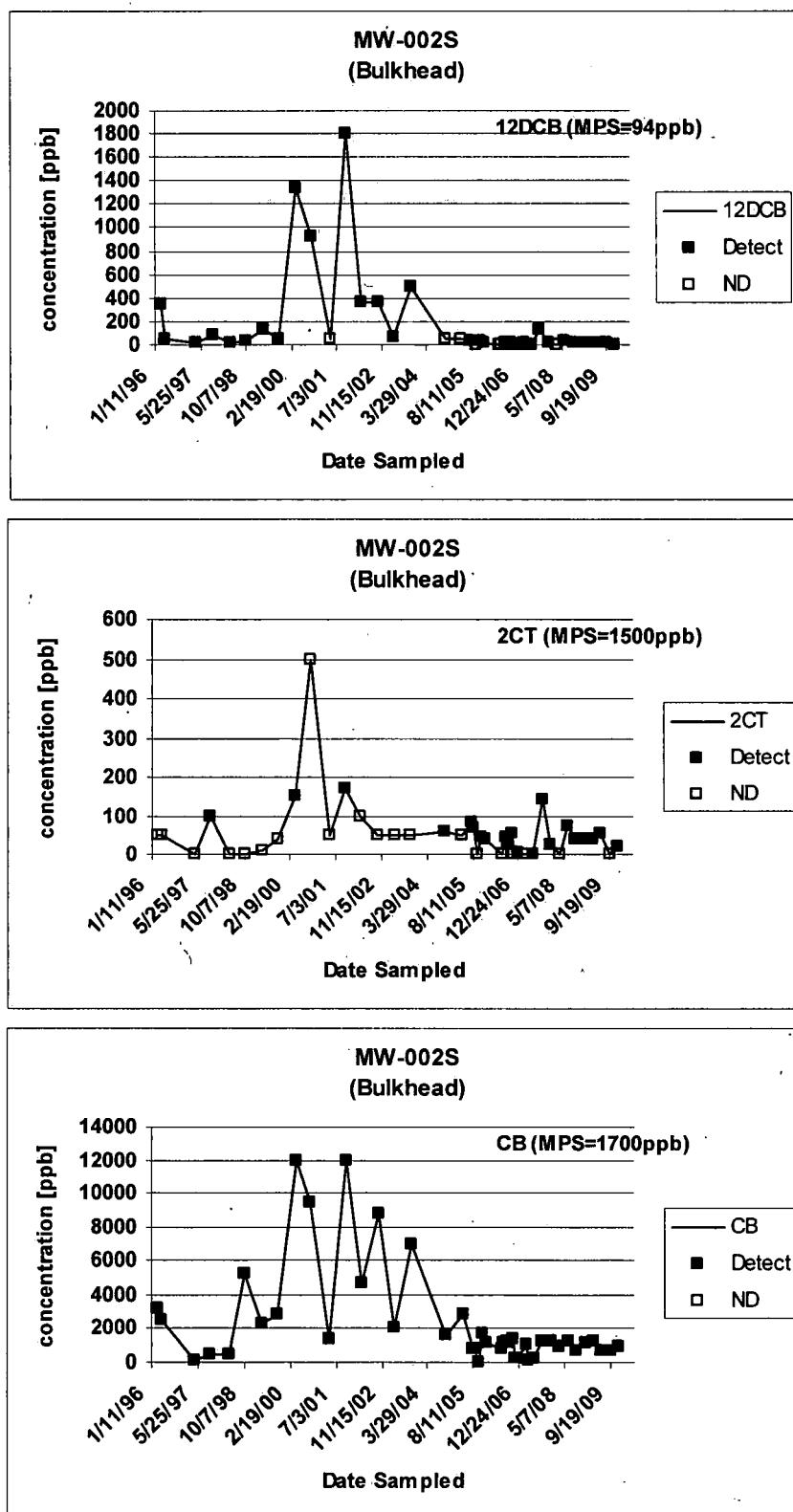
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CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



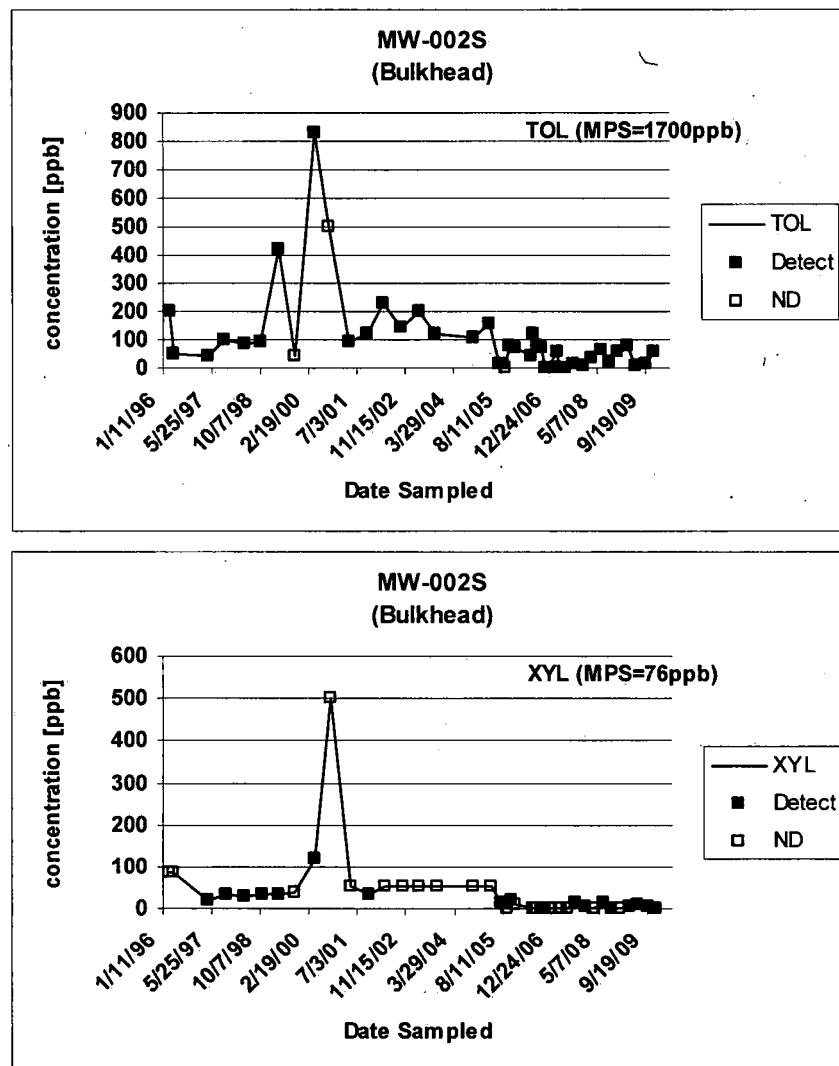
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Annual Monitoring



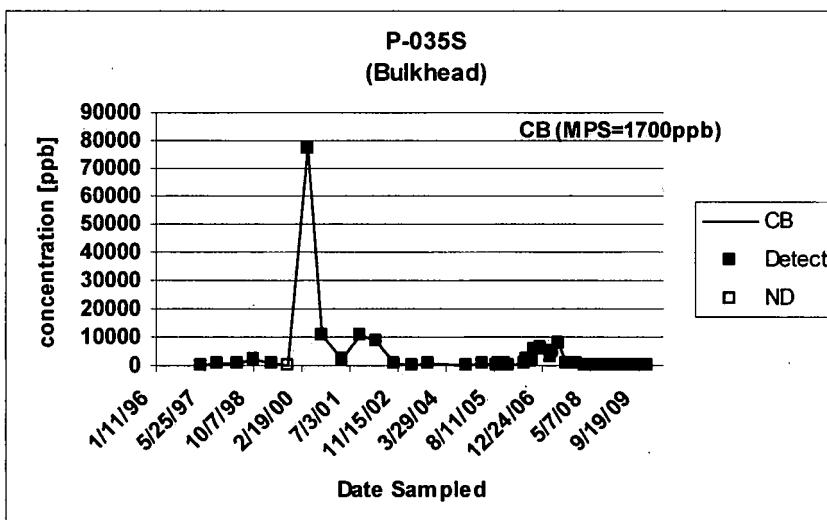
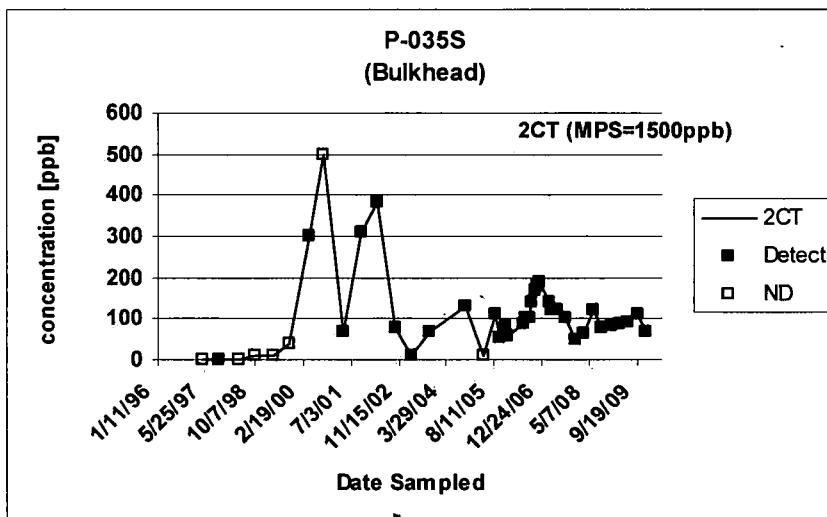
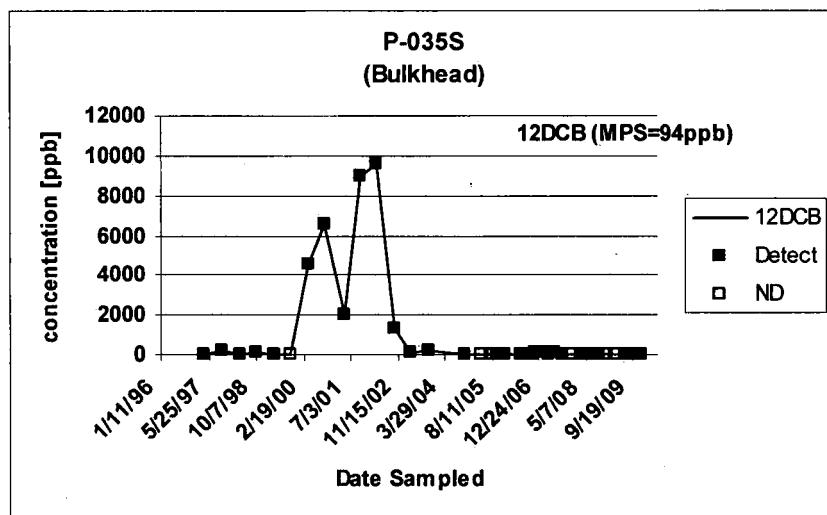
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Annual Monitoring



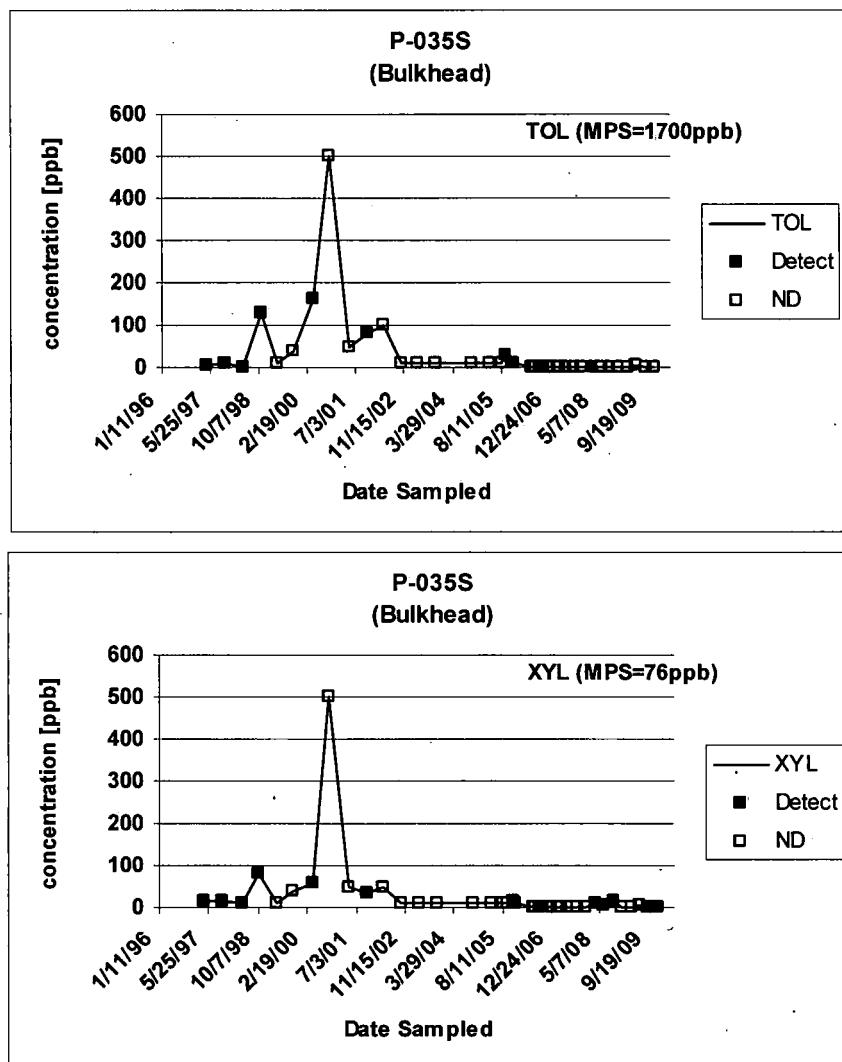
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Time-Series Graph
Annual Monitoring



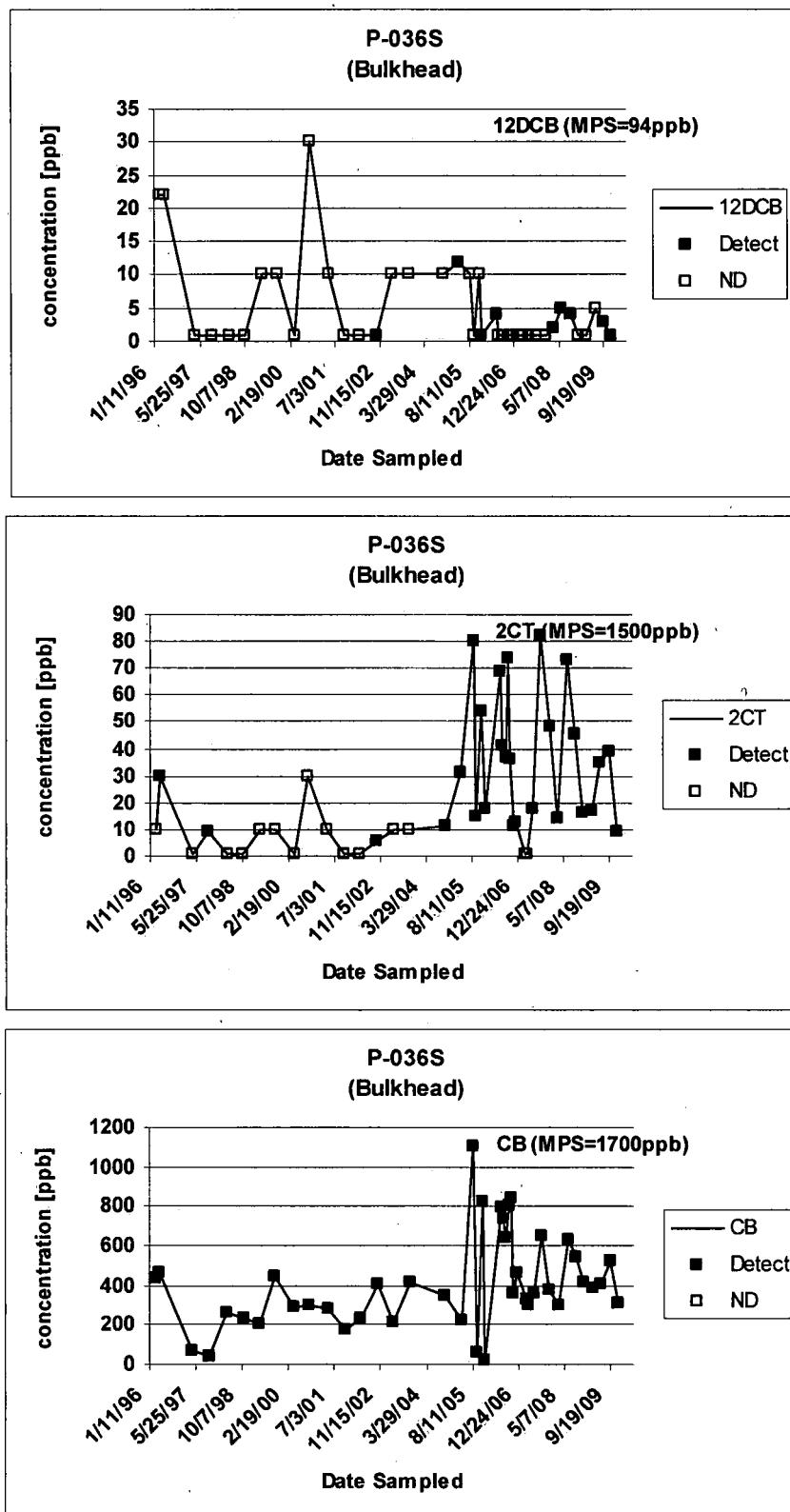
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Time-Series Graph
Annual Monitoring



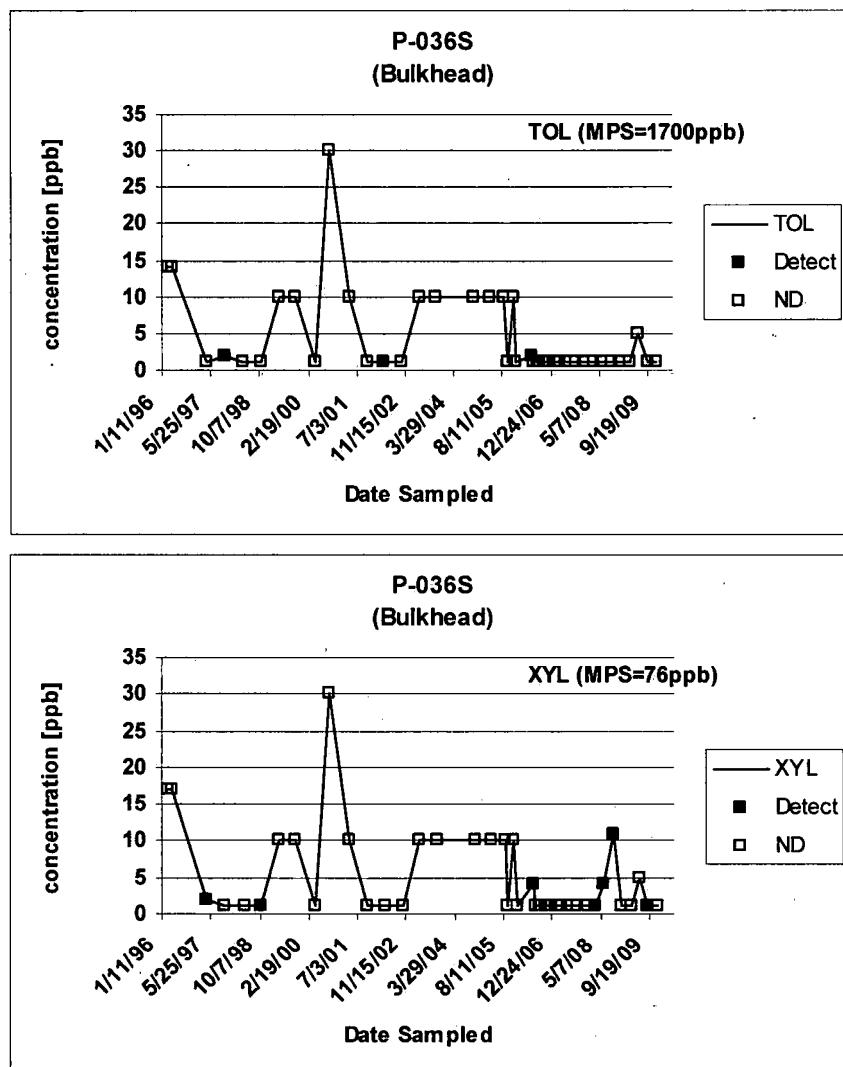
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Time-Series Graph
Annual Monitoring



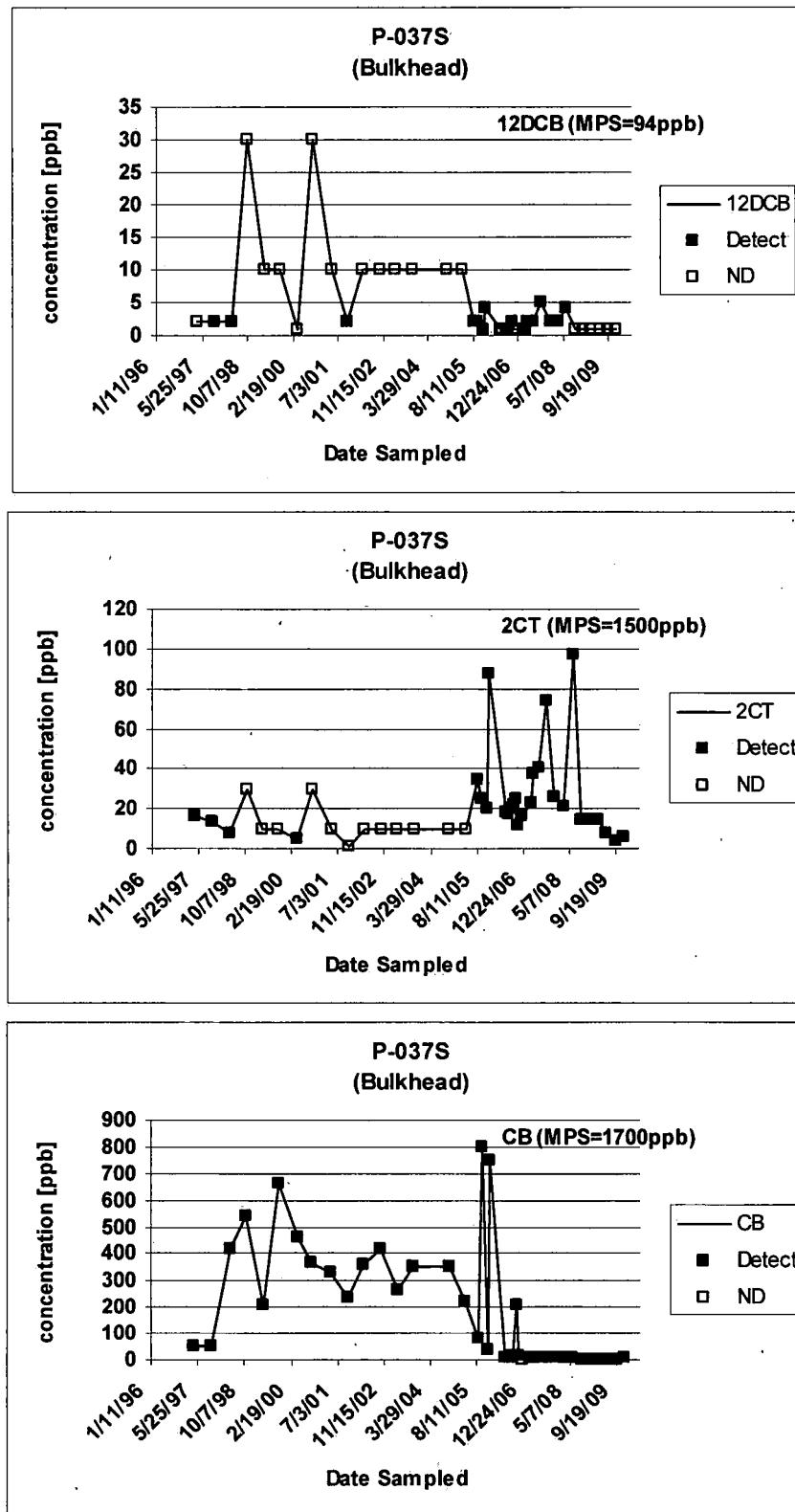
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CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



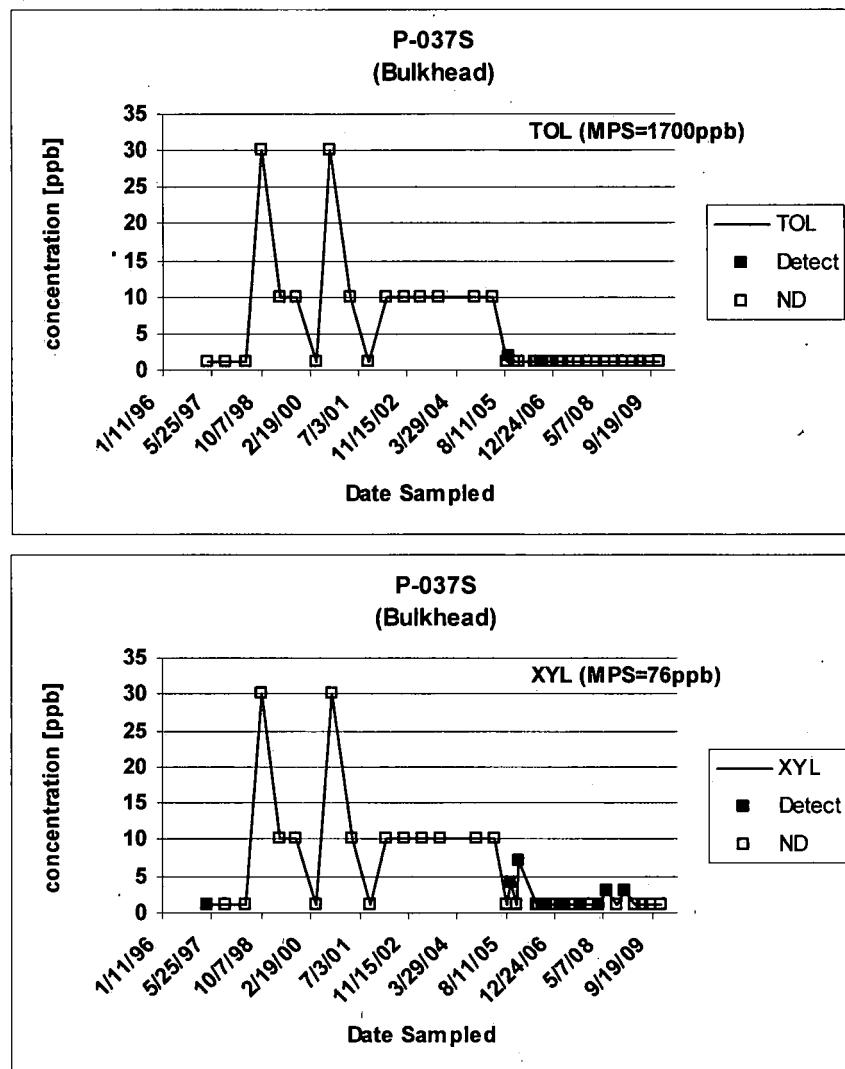
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Time-Series Graph
Annual Monitoring



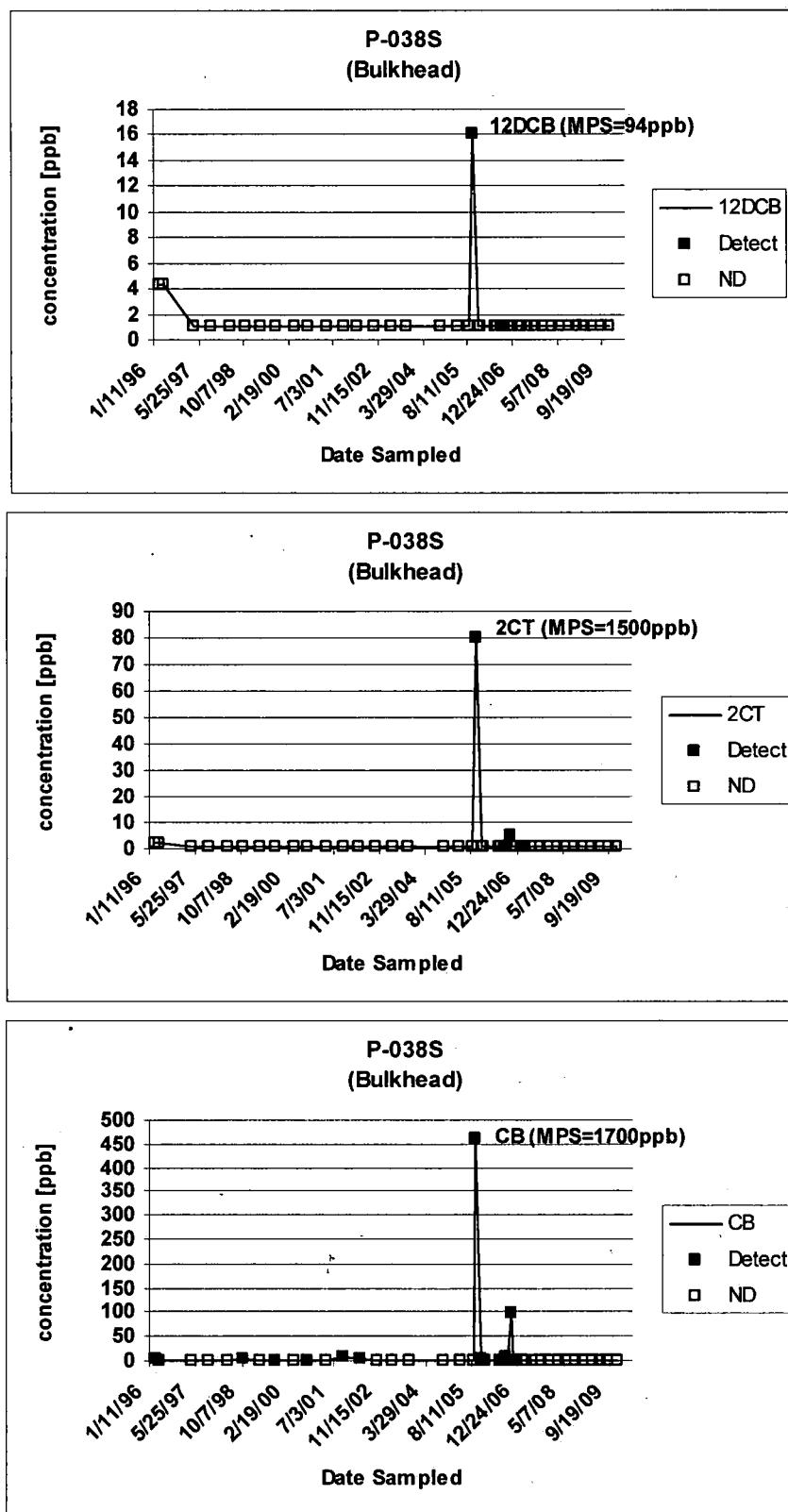
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Time-Series Graph
Annual Monitoring



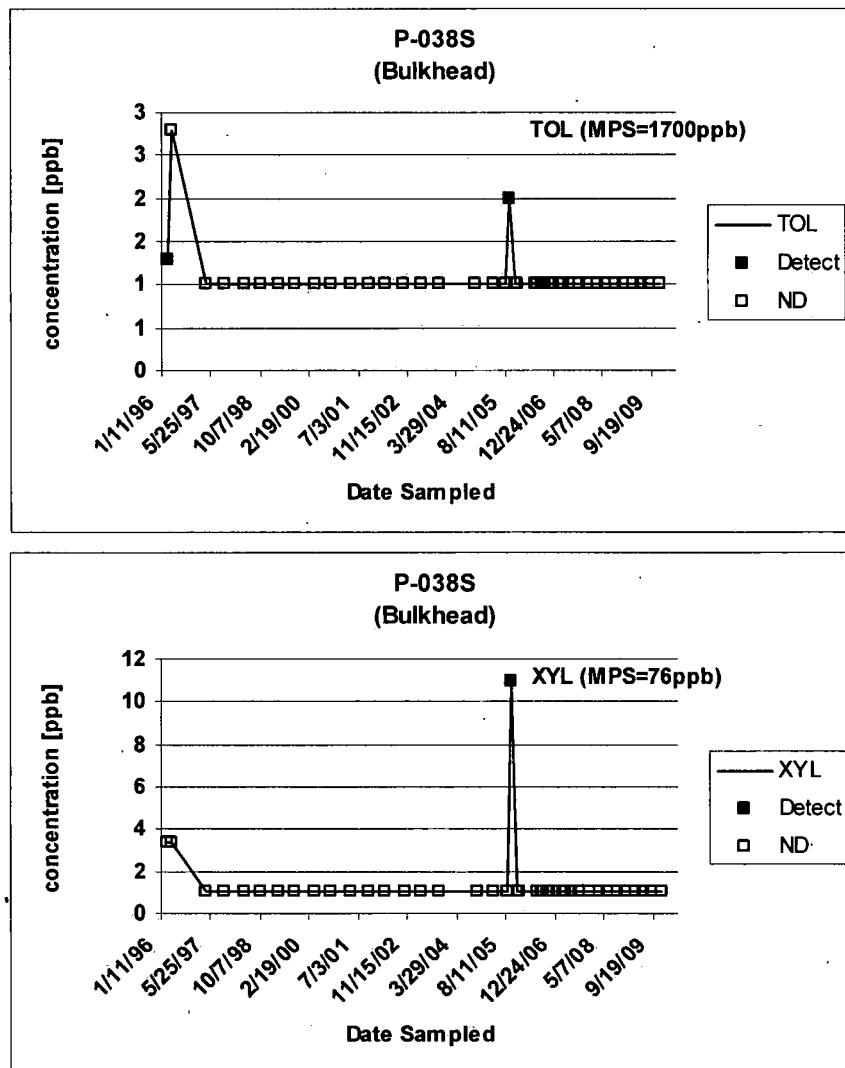
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CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



APPENDIX D
TIME-SERIES GRAPHS
FOR
IN-RIVER WELLS

Table 5
IN-RIVER WELLS
Cumulative Results for Chemicals Of Concern
(Units in ppb)

| Well No. | Date Sampled | 1,2-Dichloro-benzene | Chloro-benzene | o-Chloro-toluene | Toluene | Xylenes |
|----------|--------------|----------------------|----------------|------------------|---------|---------|
| MPS | | 94 | 1700 | 1500 | 1700 | 76 |
| SW-110 | 6-Mar-96 | 54 | 1600 | 55 | 460 | 34 U |
| SW-110 | 2-May-96 | 63 J | 1600 | 40 U | 220 | 68 U |
| SW-110 | 10-Apr-97 | 23 | 110 | 1 | 62 | 8 |
| SW-110 | 8-Oct-97 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-110 | 27-Apr-98 | 21 | 1100 | 2 | 170 | 6 |
| SW-110 | 15-Oct-98 | 100 U | 440 | 100 U | 100 U | 100 U |
| SW-110 | 15-Apr-99 | 50 U | 670 | 50 U | 50 U | 50 U |
| SW-110 | 27-Sep-99 | 40 U | 2500 | 40 U | 220 | 40 U |
| SW-110 | 20-Apr-00 | 47 | 20 U | 91 | 380 | 20 U |
| SW-110 | 21-Sep-00 | 100 U | 2000 | 100 U | 820 | 100 U |
| SW-110 | 18-Apr-01 | 1 U | 3 | 1 U | 1 U | 1 U |
| SW-110 | 18-Oct-01 | 1 U | 2 | 1 U | 1 U | 1 U |
| SW-110 | 4-Apr-02 | 1 U | 2 | 1 U | 1 U | 1 U |
| SW-110 | 11-Oct-02 | 1 U | 5 | 1 U | 1 U | 1 U |
| SW-110 | 2-Apr-03 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-110 | 2-Oct-03 | 1 U | 1 | 1 U | 1 U | 1 U |
| SW-110 | 16-Oct-04 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-110 | 11-Apr-05 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-110 | 14-Oct-08 | NA | NA | NA | NA | NA |
| SW-120 | 5-Mar-96 | 4.3 U | 63 | 2 U | 2.8 U | 3.4 U |
| SW-120 | 30-Apr-96 | 4.3 U | 70 | 2 U | 2.8 U | 3.4 U |
| SW-120 | 8-Apr-97 | 1 U | 43 | 1 U | 1 U | 1 U |
| SW-120 | 7-Oct-97 | 1 | 39 | 39 | 31 | 2 |
| SW-120 | 27-Apr-98 | 1 U | 54 | 1 U | 1 U | 1 U |
| SW-120 | 15-Oct-98 | 1 U | 36 | 1 U | 1 U | 1 U |
| SW-120 | 15-Apr-99 | 10 U | 92 | 10 U | 10 U | 10 U |
| SW-120 | 27-Sep-99 | 10 U | 68 | 10 U | 10 U | 10 U |
| SW-120 | 20-Apr-00 | 1 U | 67 | 1 U | 1 U | 1 U |
| SW-120 | 21-Sep-00 | 9100 | 1800 | 500 U | 500 U | 500 U |
| SW-120 | 18-Apr-01 | 1 U | 58 | 1 U | 1 U | 1 U |
| SW-120 | 18-Oct-01 | 2 | 54 | 1 U | 1 U | 1 U |
| SW-120 | 5-Apr-02 | 1 U | 39 | 1 U | 1 U | 1 U |
| SW-120 | 11-Oct-02 | 1 U | 47 | 1 U | 1 U | 1 U |
| SW-120 | 2-Apr-03 | 1 U | 45 | 1 U | 1 U | 1 U |
| SW-120 | 3-Oct-03 | 1 U | 44 | 1 U | 1 U | 1 U |
| SW-120 | 17-Oct-04 | 1 U | 48 | 1 U | 1 U | 1 U |
| SW-120 | 12-Apr-05 | 1 U | 40 | 1 U | 1 U | 1 U |
| SW-120 | 14-Oct-08 | 1 U | 43 | 1 U | 1 U | 1 U |
| SW-130 | 6-Mar-96 | 4.3 U | 3 U | 6.5 | 2.8 U | 3.4 U |
| SW-130 | 1-May-96 | 4.3 U | 3 U | 12 | 2.8 U | 3.4 U |
| SW-130 | 9-Apr-97 | 1 U | 1 | 12 | 1 U | 1 U |
| SW-130 | 7-Oct-97 | 1 U | 1 U | 2 | 1 U | 1 U |
| SW-130 | 27-Apr-98 | 1 U | 27 | 14 | 1 U | 1 U |
| SW-130 | 15-Oct-98 | 1 U | 1 U | 1 | 1 U | 1 U |
| SW-130 | 15-Apr-99 | 1 U | 5 | 5 | 1 U | 1 U |
| SW-130 | 27-Sep-99 | 1 U | 1 | 2 | 1 U | 1 U |
| SW-130 | 20-Apr-00 | 1 | 10 | 30 | 1 U | 1 |
| SW-130 | 21-Sep-00 | 5 U | 5 U | 5 U | 5 U | 5 U |
| SW-130 | 19-Apr-01 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-130 | 18-Oct-01 | 1 U | 12 | 1 U | 1 U | 1 U |
| SW-130 | 4-Apr-02 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-130 | 11-Oct-02 | 1 U | 1 U | 1 U | 1 U | 1 U |
| SW-130 | 2-Apr-03 | NA | NA | NA | NA | NA |
| SW-130 | 3-Oct-03 | NA | NA | NA | NA | NA |
| SW-130 | 17-Oct-04 | NA | NA | NA | NA | NA |
| SW-130 | 12-Apr-05 | NA | NA | NA | NA | NA |
| SW-130 | 14-Oct-08 | NA | NA | NA | NA | NA |

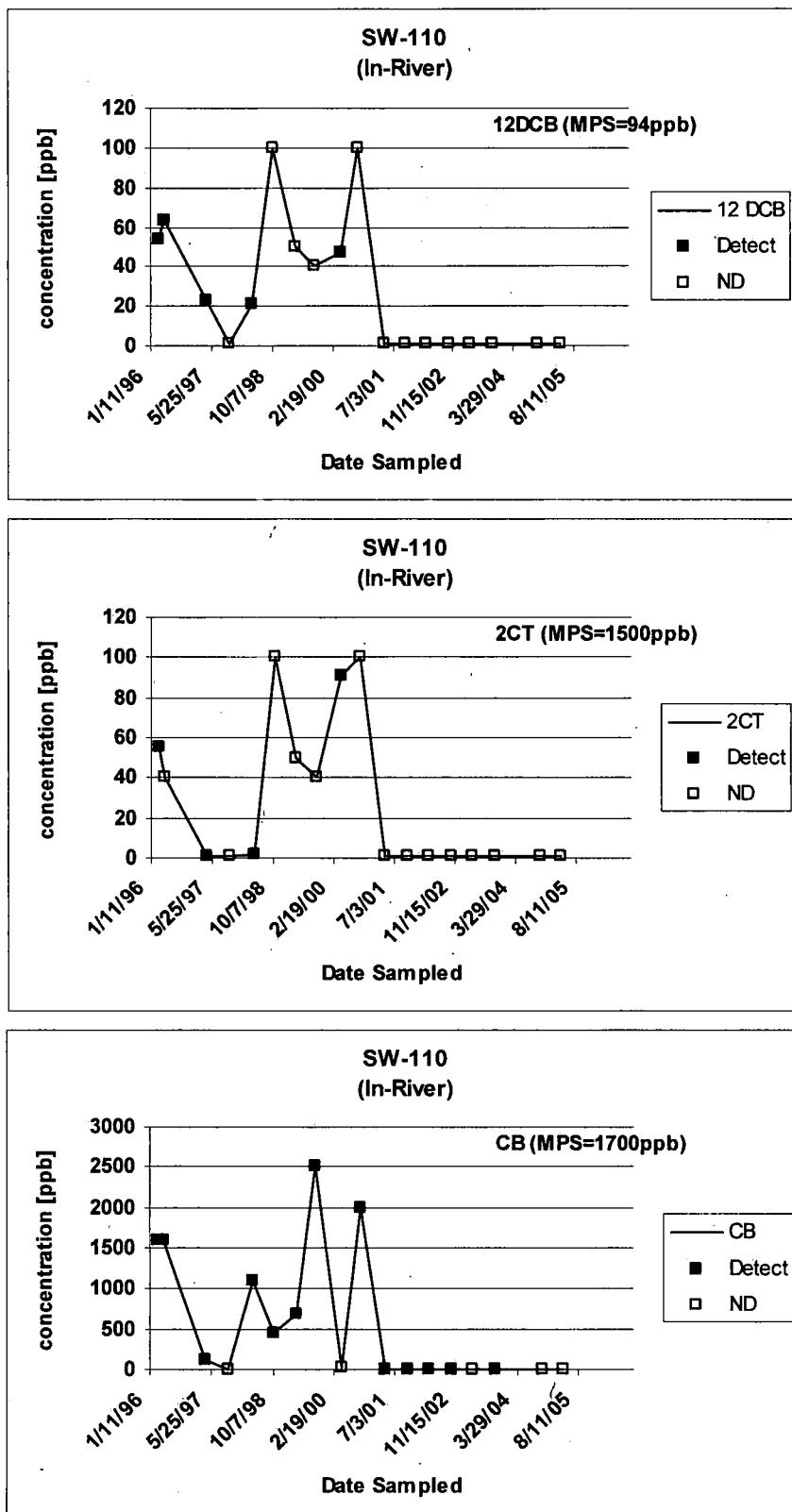
MPS = Media Protection Standard

U = Nondetect with detection limit given

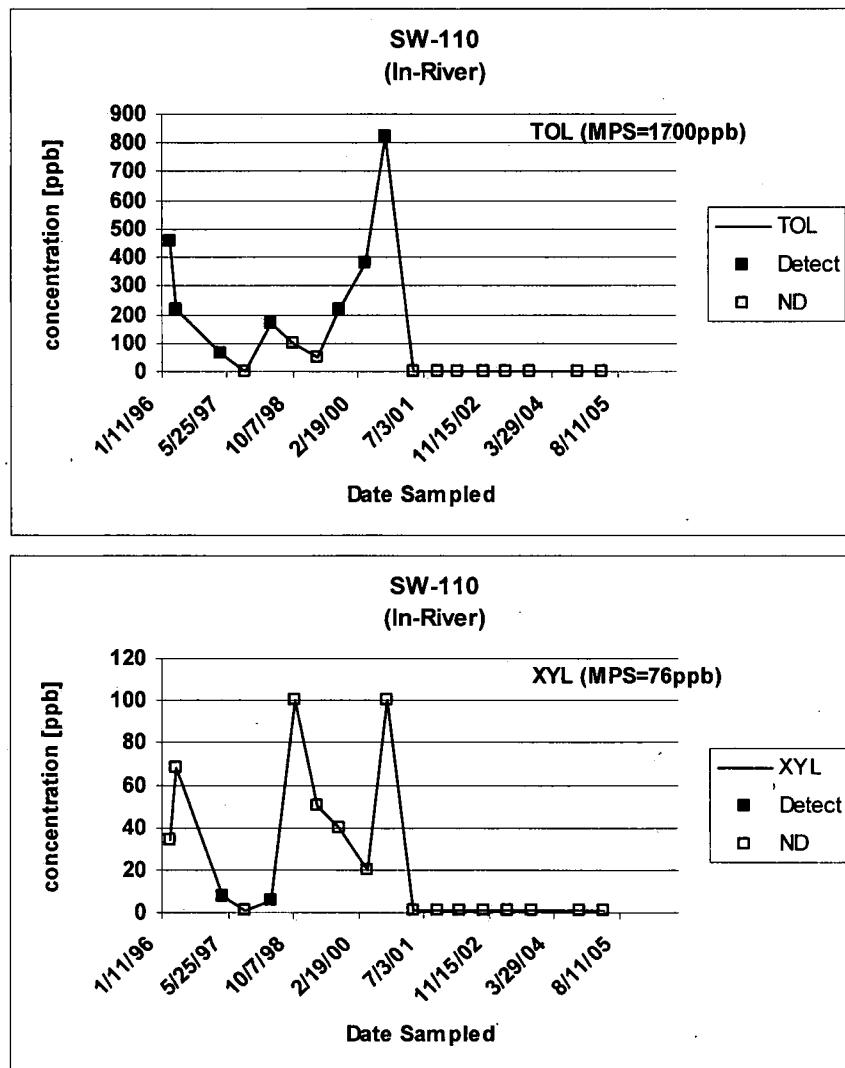
J = Estimated value

NA - Not available, since SW-110 & SW-130 was dropped from the program because they were no longer able to provide a sample due to blockage.

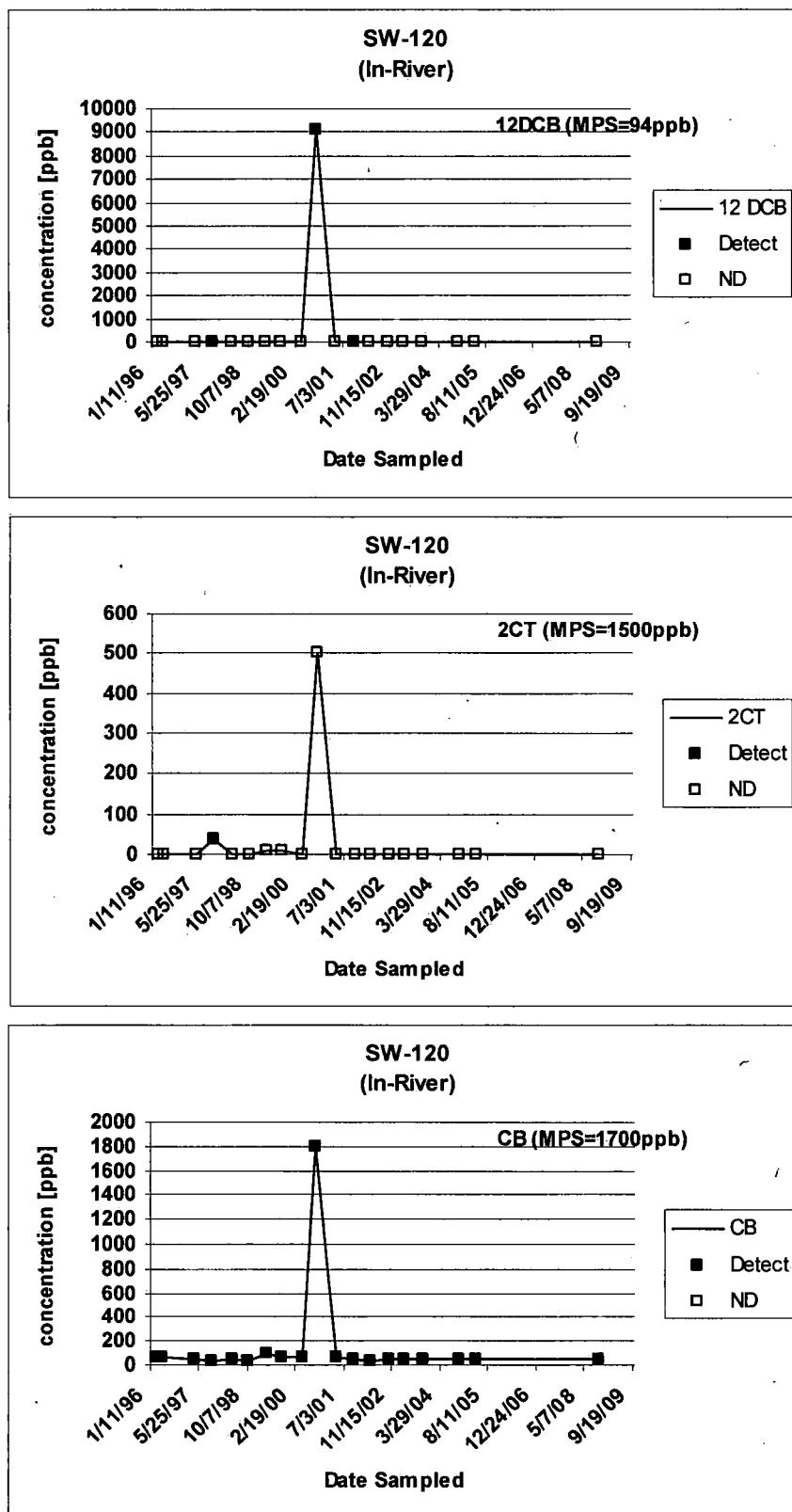
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CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



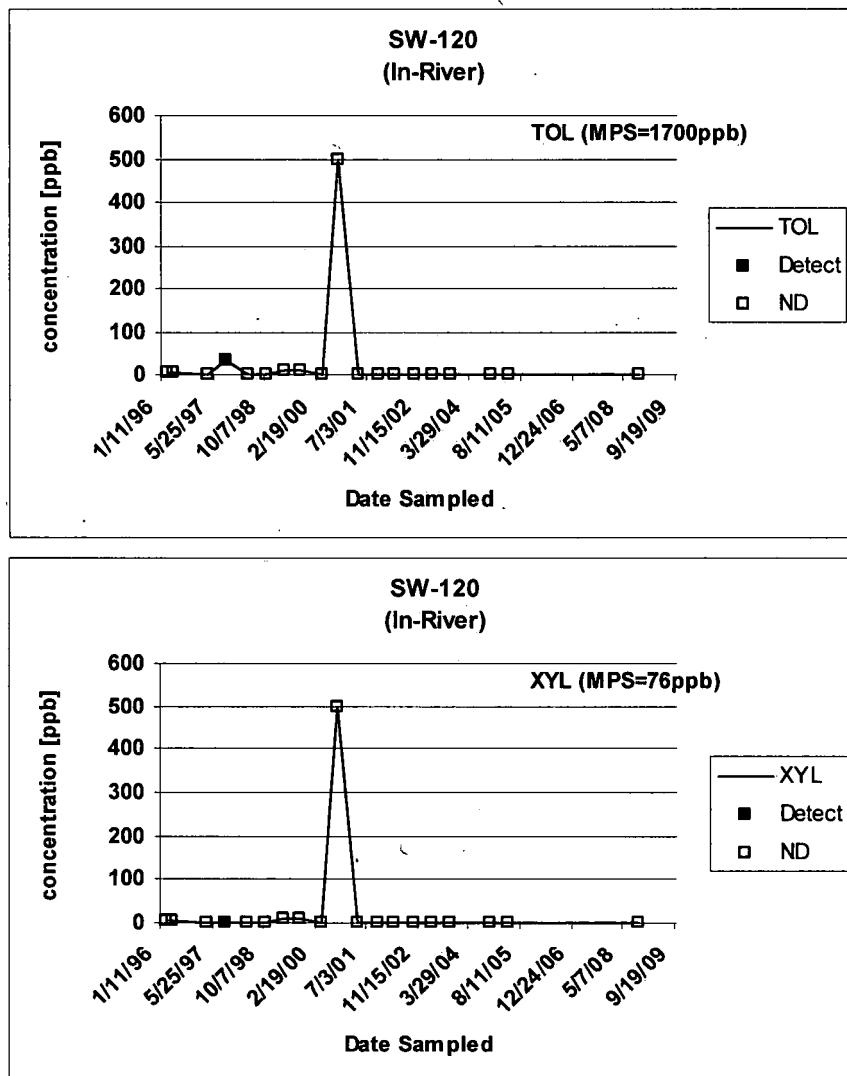
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Time-Series Graph
Annual Monitoring



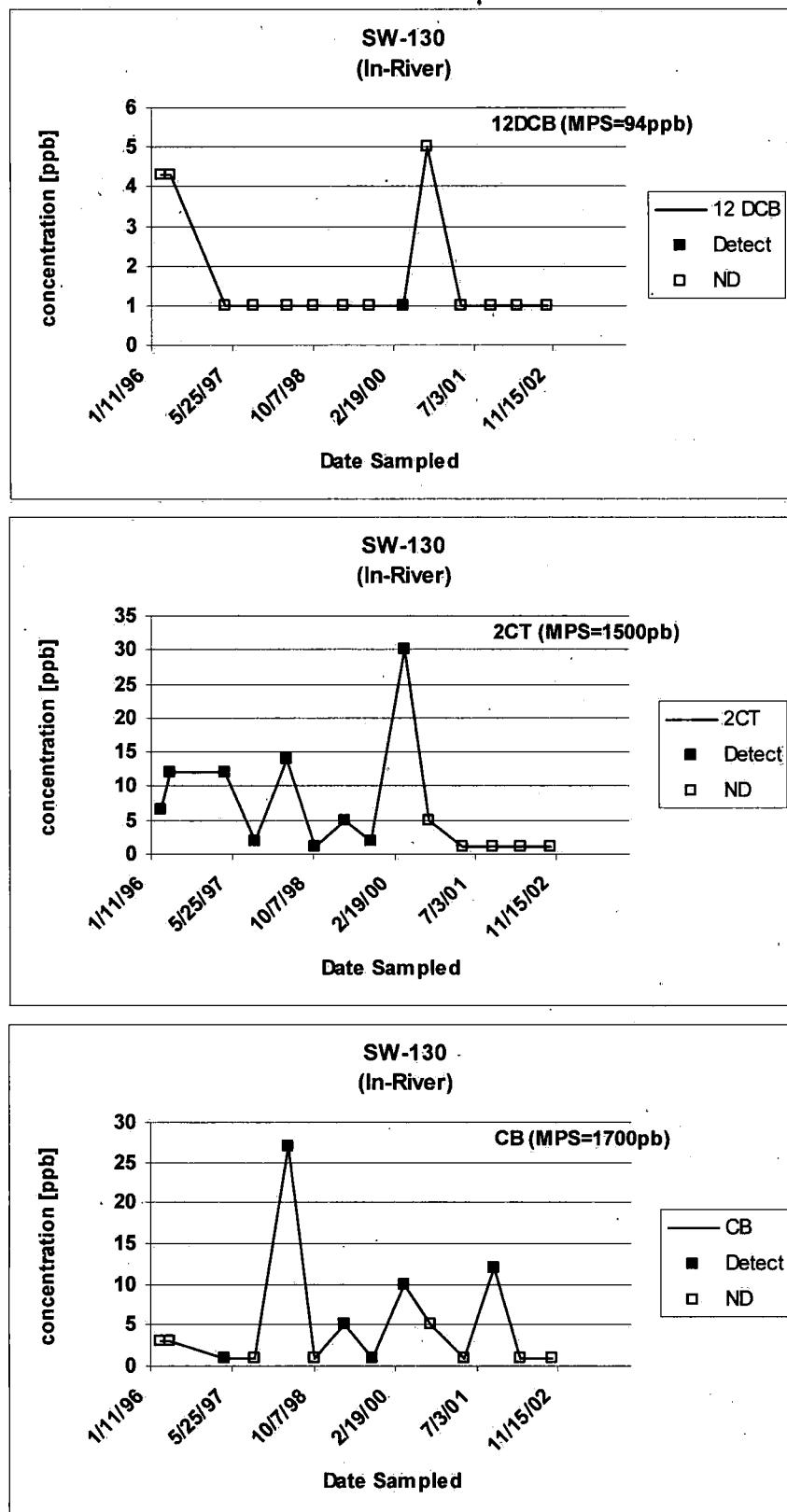
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CRANSTON RHODE ISLAND FACILITY
Time-Series Graph
Annual Monitoring



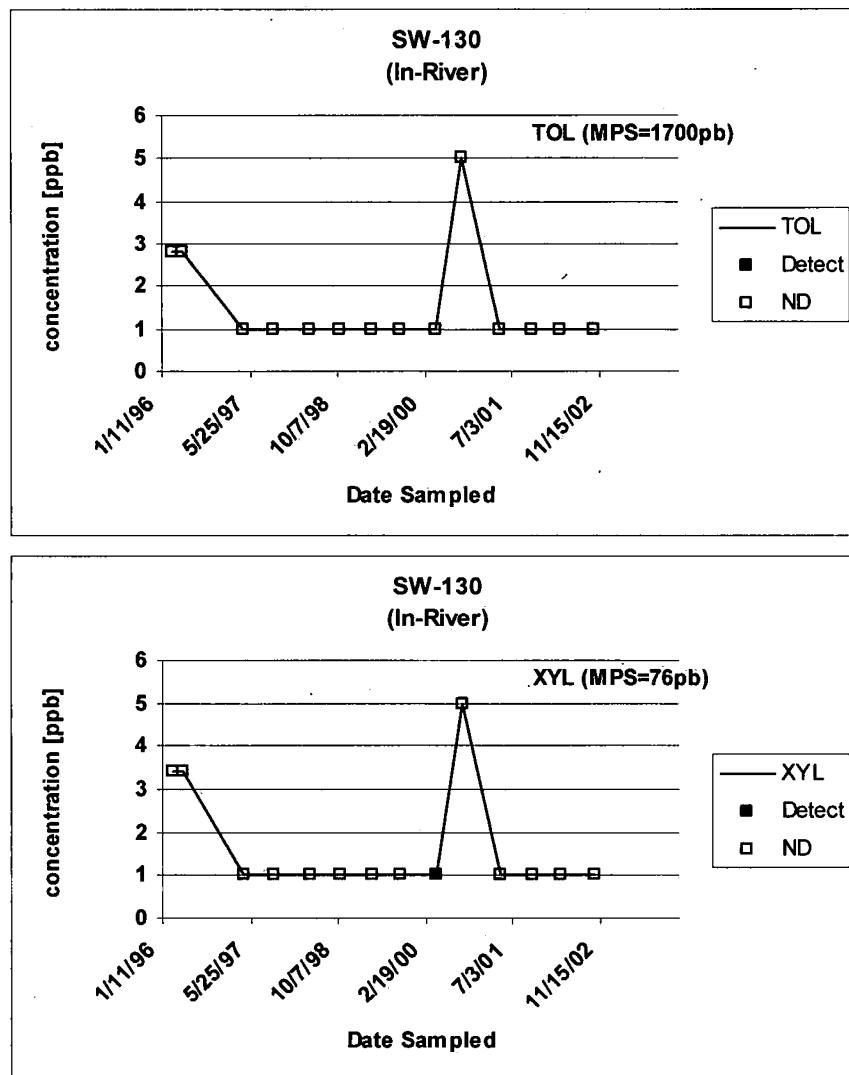
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Time-Series Graph
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Time-Series Graph
Annual Monitoring



APPENDIX E

CERTIFICATE OF ANALYSIS

R. I. ANALYTICAL



CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNichols
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 2/3/09
Date Reported: 2/11/09
P.O. #: TO 002129
Work Order #: 0902-01700

DESCRIPTION: TWO GROUNDWATER SAMPLES

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

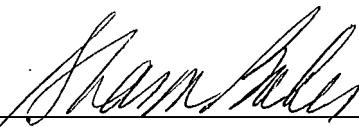
enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 2/3/09
 Work Order #: 0902-01700

Approved by:


Karen Baker
Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: INFLUENT TO CARBON

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 2/03/2009 @ 9:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------|--------|---------------|---------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Vinyl Chloride | 10 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 2/5/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Trichloroethylene | 2 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Tetrachloroethylene | 2 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Chlorobenzene | 660 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 2/5/09 | MMM |
| Benzene | 17 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Toluene | 9 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Ethylbenzene | 1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Xylenes(Total) | 8 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Butanone(MEK) | 16 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| o-Chlorotoluene | 120 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichlorobenzene | 330 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Surrogates | | | RANGE | 8260 | 2/5/09 | MMM |

R.I. Analytical Laboratories, Inc.

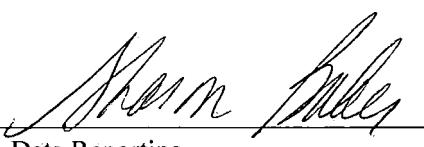
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 2/3/09

Work Order #: 0902-01700

Approved by:


Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: INFLUENT TO CARBON**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 2/03/2009 @ 9:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-------|--------|---------------|---------|
| Dibromofluoromethane | 100 | 86-118% | 8260 | 8260 | 2/5/09 | MMM |
| 4-Bromofluorobenzene | 108 | 86-115% | 8260 | 8260 | 2/5/09 | MMM |
| Toluene-D8 | 99 | 88-110% | 8260 | 8260 | 2/5/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 2/3/09
 Work Order #: 0902-01700

Approved by:


Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: BETWEEN UNITS B & C

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 2/03/2009 @ 9:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------|--------|---------------|---------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Vinyl Chloride | 4 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 2/5/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Chloroform | 4 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Chlorobenzene | 8 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 2/5/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 2/5/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 2/5/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| o-Chlorotoluene | 2 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,2-Dichlorobenzene | 4 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 2/5/09 | MMM |
| Surrogates | | | RANGE | 8260 | 2/5/09 | MMM |

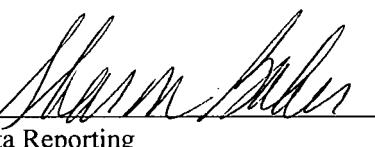
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 2/3/09

Work Order #: 0902-01700

Approved by:


Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: BETWEEN UNITS B & C**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 2/03/2009 @ 9:00**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 2/5/09 | MMM |
| 4-Bromofluorobenzene | 103 | | 86-115% | 8260 | 2/5/09 | MMM |
| Toluene-D8 | 99 | | 88-110% | 8260 | 2/5/09 | MMM |

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

**41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970**

131 Coolidge St., Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

| Client Information | | Project Information | | |
|---------------------|----------------------|---------------------|-----------------|---------------------------------|
| Company Name: | CIBA CORP | Project Name: | | |
| Address: | 180 MILL ST. | P.O. Number: | Project Number: | |
| City / State / Zip: | CRANSTON, R.I. 02905 | Report To: | Phone: | Fax: |
| Telephone: | 401-2351 | Fax: | 401 2102 | Sampled by: <i>Walter Allen</i> |
| Contact Person: | <i>Walter Allen</i> | Quote No: | Email address: | |

| Relinquished By | Date | Time | Received By | Date | Time |
|--------------------|--------|----------|------------------|--------|-------|
| Daniel K. Greenlaw | 2-3-09 | 10:10 AM | Glenda J. Culley | 2/3/09 | 10:10 |
| | | | | | |

| Turn Around Time | | |
|--|--|--------------|
| <input checked="" type="checkbox"/> Normal | | EMAIL Report |
| 5 Business days. Possible surcharge. | | |
| Rush _____ (business days). | | |

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes No
NOTE FAX RESULTS TO DARRON McNICHOLS Toms River N.J., FAX# 1732 914 2909
COPE TO WALTER ALLEN FAX# 1401 461 2102 9.2

| | |
|--|----------------------------------|
| Lab Use Only | |
| | Sample Pick Up Only |
| | RIAL sampled; attach field hours |
|  Shipped on ice | |
| Workorder No: 18102-01700 | |

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile

Preservation Codes: NP=None, N=HNO₃, H=HCl, S=H₂SO₄, SH=NaOH, SB=NaHSO₄, M=MeOH, T=Na₂S₂O₃, Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=

0902-01700 001

R.I. Analytical
Phone (401) 737-8500

Ciba Specialty Chemicals Corp

Project: CIBI

Date Sampled: 2/03/09

Time Sampled: 9:00

ID:

ZZ-LABEL ZZ-DISPOSE ZZ-MINIMUM

Preservative:
none

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNichols
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 3/17/09
Date Reported: 3/25/09
P.O. #: TO 002129
Work Order #: 0903-04330

DESCRIPTION: CIBA GEIGY, MILL STREET MW'S (SAMPLED BY RIAL PERSONNEL)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:



Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 9:42

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 9.6 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 10.8 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 1000 | 1.0 | uMHOS/CM | SM 2510B | 3/19/09 | ML |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 1300 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <20 | 20 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | 29 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 9:42

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 91 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 96 | | 88-110% | 8260 | 3/19/09 | MMM |

Method 8260:

Detection limits increased as a result of sample dilution. Sample dilution required to achieve target compound response within the calibration range of the analysis.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:



Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 10:48

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|------------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.0 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 9.1 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 620 | 1.0 | uMHOS/CM | SM 2510B | 3/24/09 | CAA |
| Volatile Organic Compounds. | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | 100 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | 7 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 1200 | 10 | ug/l | 8260 | 3/20/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | 19 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | 78 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | 1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | 6 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 41 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | 10 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 10:48

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 96 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 86 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 97 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

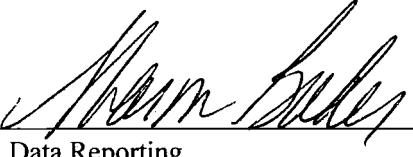
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 3/17/09

Work Order #: 0903-04330

Approved by:



Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-004S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 12:21

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.9 | | su | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 12.7 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 370 | 1.0 | uMHOS/CM | SM 2510B | 3/24/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 54 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/20/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 16 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | 5 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-004S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 12:21

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 93 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 96 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: MW-012S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 3/17/2009 @ 12:50

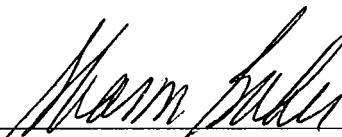
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.9 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 12.5 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 300 | 1.0 | uMHOS/CM | SM 2510B | 3/24/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 12:50

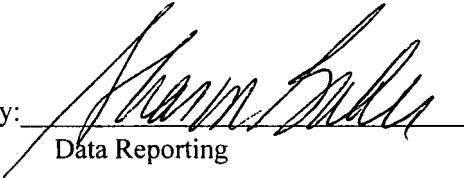
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 93 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 97 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


John S. Ballou
Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 3/17/2009 @ 13:32

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.7 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 11.8 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 280 | 1.0 | µMHOS/CM | SM 2510B | 3/24/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | 8 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 200 | 10 | ug/l | 8260 | 3/20/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 13:32

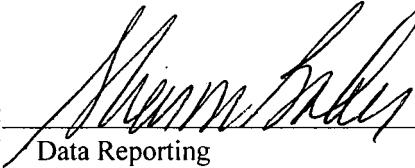
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 94 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 96 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: P-035S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 3/17/2009 @ 10:20

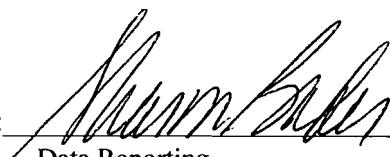
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 7.2 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 8.7 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 470 | 1.0 | uMHOS/CM | SM 2510B | 3/19/09 | ML |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 260 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <20 | 20 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <10 | 10 | ug/l | 8260 | 3/16/09 | MMM |
| Acetone | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 86 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 006

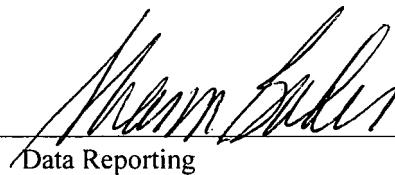
SAMPLE DESCRIPTION: P-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 10:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 93 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 98 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:



Data Reporting

Sample #: 007

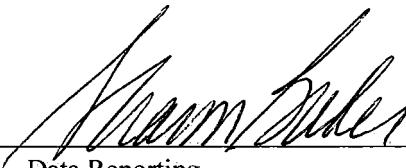
SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 10:51

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.2 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 9.2 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 520 | 1.0 | µMHOS/CM | SM 2510B | 3/24/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 390 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <20 | 20 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <10 | 10 | ug/l | 8260 | 3/16/09 | MMM |
| Acetone | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <100 | 100 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <500 | 500 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 17 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 10:51

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 96 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 93 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 95 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

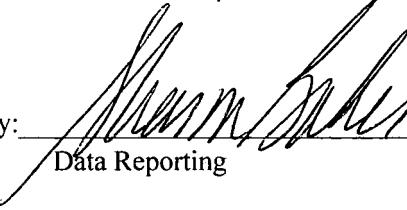
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 3/17/09

Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: P-037S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 3/17/2009 @ 9:38

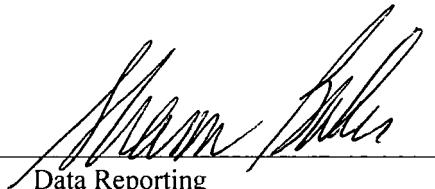
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.6 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 10.6 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 310 | 1.0 | µMHOS/CM | SM 2510B | 3/19/09 | ML |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | 2 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | 14 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:

Data Reporting



Sample #: 008

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 9:38

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 96 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 98 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

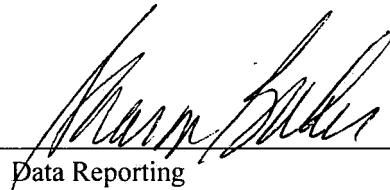
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 3/17/09

Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 9:15

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.3 | | SU | SM 4500-H+ B | 3/17/09 | ATP |
| Temperature (field) | 11.6 | | C | EPA 170.1 | 3/17/09 | ATP |
| Specific Conductance | 300 | 1.0 | uMHOS/CM | SM 2510B | 3/19/09 | ML |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


 Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 3/17/2009 @ 9:15

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |
| Dibromofluoromethane | 98 | | 86-118% | 8260 | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 96 | | 86-115% | 8260 | 3/19/09 | MMM |
| Toluene-D8 | 98 | | 88-110% | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 3/17/09
 Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK

SAMPLE TYPE: GRAB

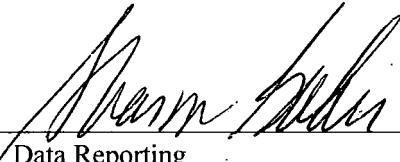
SAMPLE DATE/TIME: 3/17/2009 @ 8:40

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------|--------|---------------|---------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 3/19/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 3/19/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 3/19/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 3/19/09 | MMM |
| Surrogates | | | RANGE | 8260 | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
Date Received: 3/17/09
Work Order #: 0903-04330

Approved by:


Data Reporting

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 3/17/2009 @ 8:40**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-------|--------|---------------|---------|
| Dibromofluoromethane | 95 | 86-118% | 8260 | | 3/19/09 | MMM |
| 4-Bromofluorobenzene | 94 | 86-115% | 8260 | | 3/19/09 | MMM |
| Toluene-D8 | 95 | 88-110% | 8260 | | 3/19/09 | MMM |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORD

Page 1 of 1

Container Type Codes:
P = Plastic V = Vial
G = Glass St = Sterile
AG = Amber Glass
O = Other (describe)

Preservative Codes:
NP = Non preserved S = Sulfuric
I = Cooled 4°C H = HCl
N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SI = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

| Date Collected | Time Collected | Sample ID | G = Grab C = Comp. | Containers # + Code | Preservative Code | Matrix Code | Analyses Requested |
|----------------|----------------|------------|-----------------------|------------------------|-------------------|-------------|--|
| 3/17/09 | 9:42 | MW-001S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 10:48 | MW-002S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 12:21 | MW-004S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 12:50 | MW-012S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 13:32 | MW-021S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 10:20 | P-035S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 10:51 | P-036S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 9:38 | P-037S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 9:15 | P-038S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ✓ | 8:40 | Trip Blank | G | 1V | H | DI | 8260 including O-Chlorotoluene |

Client Information

| | | | |
|--|---|-------------------------------|-----------------|
| Company Name: Ciba Geigy | Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI | | |
| Address: Rt 37 West, PO BOX 71 | P.O. Number: | | Project Number: |
| City / State / Zip: Tom River, NJ 08754-0071 | Report To: | | Phone: Fax: |
| Phone: (732) 914-2517 | Fax: (732) 914-2909 | Sampled by: <i>A. Pearson</i> | |
| Contact: Ms. Doreen McNicholas | Reference Proposal: | | |

Relinquished by:

Date

Time

Received by:

Date

Time

Turn Around Time:

*John L. Dorn**John L. Dorn*

- Normal
 5 business days
Surcharges may apply

Project Comments:

*pH, temperature, S.C., measured in field. Field notes and results attached.

MDLs: 1,2 dichlorobenzene <94 ppb
chlorobenzene <1700 ppb
O-chlorotoluene <1500 ppb
toluene <1700 ppb
xylenes <76 ppb

*32.4**6*

RIAL USE ONLY:

- Pick-Up Only
 RIAL Sampled. Attach field hours
 Shipped on Ice
RIAL W.O. # *0903-01330*

0903-04330 001

R.T. Analytical
Phone (401) 737-8500

Ciba Specialty Chemicals Corp.

Project: CIB1

Date Sampled: 3/17/99

Time Sampled: 9:42

ID:

ZZ-LABEL ZZ-DISPOSE ZZ-MINIMUM

Preservative:
none

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNichols
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 6/12/09
Date Reported: 6/22/09
P.O. #: TO 002129
Work Order #: 0906-10306

DESCRIPTION: CIBA GEIGY SITE ON MILL STREET IN CRANSTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


Karen Miller
Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 8:58

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 8.6 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 1200 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | 2 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | 1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | 1300 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | 10 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | 1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | 37 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | 13 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | 30 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | 43 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

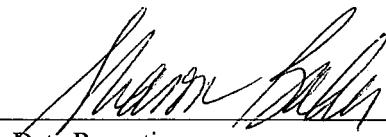
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 8:58

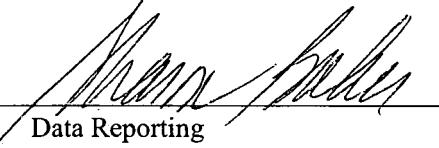
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| o-Chlorotoluene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 108 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 97 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 10:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.9 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 520 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | 75 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| 1,1,2-Trichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Dibromochloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Bromoform | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Tetrachloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| 1,1,2,2-Tetrachloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Chlorobenzene | 670 | 10 | ug/l | 8260 | 6/16/09 | MM |
| 2-Chloroethyl vinyl ether | <20 | 20 | ug/l | 8260 | 6/16/09 | MM |
| Benzene | 12 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Toluene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Ethylbenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| m,p-Xylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| o-Xylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Xylenes(Total) | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |
| Acetone | <100 | 100 | ug/l | 8260 | 6/16/09 | MM |
| Carbon Disulfide | <50 | 50 | ug/l | 8260 | 6/16/09 | MM |
| 2-Butanone(MEK) | <100 | 100 | ug/l | 8260 | 6/16/09 | MM |
| Vinyl Acetate | <500 | 500 | ug/l | 8260 | 6/16/09 | MM |
| 4-Methyl-2-pentanone(MIBK) | <500 | 500 | ug/l | 8260 | 6/16/09 | MM |
| 2-Hexanone | <500 | 500 | ug/l | 8260 | 6/16/09 | MM |
| Styrene | <10 | 10 | ug/l | 8260 | 6/16/09 | MM |

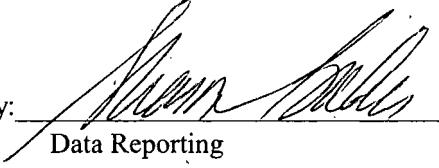
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/11/2009 @ 10:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 52 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | 10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 100 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 98 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 104 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

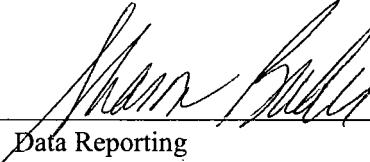
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-004S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/12/2009 @ 9:25

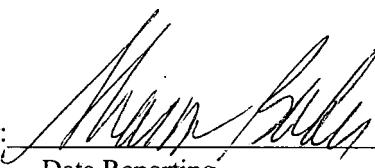
| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 6/12/09 | ATP |
| Temperature (field) | 58 | | F | EPA 170.1 | 6/12/09 | ATP |
| Specific Conductance | 290 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | 3 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-004S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/12/2009 @ 9:25

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| o-Chlorotoluene | 2 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 100 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 101 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:

Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/12/2009 @ 9:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.2 | | SU | SM 4500-H+ B | 6/12/09 | ATP |
| Temperature (field) | 52 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 290 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: MW-012S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/12/2009 @ 9:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 100 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 102 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

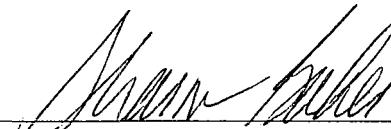
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:



Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/12/2009 @ 10:25

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.8 | | SU | SM 4500-H+ B | 6/12/09 | ATP |
| Temperature (field) | .52 | | F | EPA 170.1 | 6/12/09 | ATP |
| Specific Conductance | 260 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <20 | 20 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <100 | 100 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <500 | 500 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <500 | 500 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <500 | 500 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/12/2009 @ 10:25

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 1000 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 102 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:



Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: MW-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/11/2009 @ 9:53

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 380 | 1.0 | µMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <30 | 30 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | 240 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | 7 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <25 | 25 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |

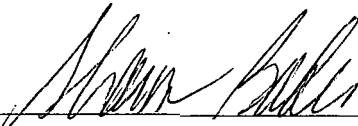
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: MW-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/11/2009 @ 9:53

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 91 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | 6 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 102 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:



Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: MW-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/11/2009 @ 9:32

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 430 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <30 | 30 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | 41.0 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | 10 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <25 | 25 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <250 | 250 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

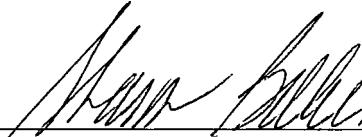
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: MW-036S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 9:32

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| o-Chlorotoluene | 35 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 100 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 101 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: MW-037S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 9:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 300 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | 2 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: MW-037S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 9:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| o-Chlorotoluene | 8 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 102 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


John Miller
Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: MW-038S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/11/2009 @ 8:55

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 7.0 | | SU | SM 4500-H+ B | 6/11/09 | ATP |
| Temperature (field) | 51.8 | | F | EPA 170.1 | 6/11/09 | ATP |
| Specific Conductance | 290 | 1.0 | uMHOS/CM | SM 2510B | 6/19/09 | CAA |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:



Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: MW-038S**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 6/11/2009 @ 8:55**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 102 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 103 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 103 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 6/12/09
 Work Order #: 0906-10306

Approved by:


John Baker
Data Reporting

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 6/12/2009 @ 10:45

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------|--------|---------------|---------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 6/16/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 6/16/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 6/16/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |

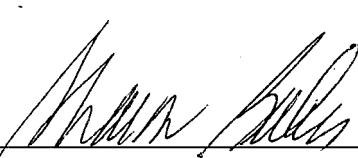
R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 6/12/09

Work Order #: 0906-10306

Approved by:


Data Reporting

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 6/12/2009 @ 10:45

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 6/16/09 | MMM |
| Surrogates | | | RANGE | 8260 | 6/16/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 6/16/09 | MMM |
| 4-Bromofluorobenzene | 99 | | 86-115% | 8260 | 6/16/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 6/16/09 | MMM |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORD

Page of

Container Type Codes:
P = Plastic V = Vial
G = Glass St = Sterile
AG = Amber Glass
O = Other (describe)

Preservative Codes:
NP = Non preserved S = Sulfuric
I = Cooled 4°C H = HCl
N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SI = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

| Date Collected | Time Collected | Sample ID | G = Grab C = Comp. | Containers # + Code | Preservative Code | Matrix Code | Analyses Requested |
|----------------|----------------|------------|-----------------------|---------------------|-------------------|-------------|--|
| 6/11/09 | 0858 | MW-001S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 1000 | MW-002S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| 6/12/09 | 9:25 | MW-004S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 9:50 | MW-012S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 10:20 | MW-021S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| 6/11/09 | 0953 | P-035S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 0932 | P-036S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 0920 | P-037S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ↓ | 0855 | P-038S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| 6/12/09 | 10:45 | Trip Blank | G | 1V | H | DI | 8260 including O-Chlorotoluene |

Client Information

| | | | | |
|--|---|-------------------------------------|--|--|
| Company Name: Ciba Geigy | Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI | | | |
| Address: Rt 37 West, PO BOX 71 | P.O. Number: Project Number: | | | |
| City / State / Zip: Tom River, NJ 08754-0071 | Report To: Phone: Fax: | | | |
| Phone: (732) 914-2517 | Fax: (732) 914-2909 | Sampled by: <i>A.P., R.G., D.D.</i> | | |
| Contact: Ms. Doreen McNicholas | Reference Proposal: | | | |

| | | | | | | |
|------------------|---------|-------|--------------------|---------|-------|--|
| Relinquished by: | Date | Time | Received by: | Date | Time | Turn Around Time: |
| <i>John</i> | 6/12/09 | 11:00 | <i>Elyse Mello</i> | 6/12/09 | 11:00 | <input type="checkbox"/> Normal <input type="checkbox"/> 5 business days <small>Surcharges may apply</small> |

Project Comments:

*pH, temperature, S.C., measured in field. Field notes and results attached.

MDLs: 1,2 dichlorobenzene <94 ppb
chlorobenzene <1700 ppb
O-chlorotoluene <1500 ppb
toluene <1700 ppb
xylenes <76 ppb

RIAL USE ONLY:

- Pick-Up Only
- RIAL Sampled. Attach field hours
- Shipped on Ice *8-2*
- RIAL W.O. # *OG06-16306*

0906-10306 | 001

Ciba Specialty Chemicals Corp.

Project: CIBI
Date Sampled: 6/11/09
Time Sampled: 8:58

ID:

ZZ-LABEL ZZ-DISPOSE ZZ-MINIMUM

Preservative:
none

RI Analytical Monitoring Well Data Sheet

Client: CBA Date: 6/1/39

Location: _____

Field Technician: _____

11 Factors For Calculating 3 Times The Volume Of Water:

$$00'' = 0.118932$$

$$2.00^{\circ} = 0.489192$$

$$2.50^\circ \equiv 0.767448$$

$$25^\circ = 0.188496$$

$$2.125'' = 0.549780$$

$$4.00^{\circ} \approx 1.959012$$

$$50'' = 0.276012$$

$$2.250^\circ = 0.619344$$

Volume Needed = Well Factors x Water Depth

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNichols
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 9/11/09
Date Reported: 9/19/09
P.O. #: TO 002129
Work Order #: 0909-16403

DESCRIPTION: CIBA GEIGY SITE ON MILL STREET IN CRANSTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508; ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:25

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 9.1 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 58.0 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 1600 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | 12 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | 2 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | 47 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | 10 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | 22 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | 32 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:25

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 104 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 63* | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 103 | | 88-110% | 8260 | 9/17/09 | MMM |

Method 8260:

* Surrogate is outside QC Range due to the sample matrix. The recovery was within the QC Range on the diluted analysis of this sample.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.
 Date Received: 9/11/09
 Work Order #: 0909-16403

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 11:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.9 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 62.0 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | 260 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | 5 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroproppane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 730 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | 11 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | 14 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 11:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | 14 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 106 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 74* | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 9/17/09 | MMM |

Method 8260:

* Surrogate is outside QC Range due to the sample matrix. The recovery was within the QC Range on the diluted analysis of this sample.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Sample #: 003

SAMPLE DESCRIPTION: MW-004S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 11:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.5 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 59.9 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 5 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | 4 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

[Signature]
Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-004S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/11/2009 @ 11:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 108 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 96 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 98 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

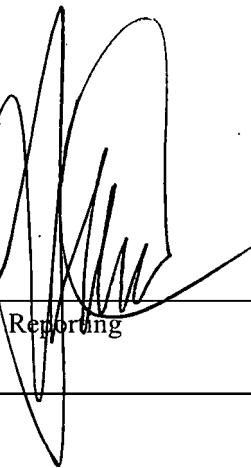
Sample #: 004

SAMPLE DESCRIPTION: MW-012S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/11/2009 @ 11:36

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|-------|--------------|---------------|---------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 61.0 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroproppane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromo-chloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 5 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |



R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 11:36

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 110 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 95 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 105 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 12:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.9 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 61.9 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroproppane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | 2 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | 4 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | 840 | 10 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: MW-021S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 12:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 109 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromo fluoro benzene | 97 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 109 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 9/11/09
 Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: P-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 10:35

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.9 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 59.9 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 260 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | 2 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | 2 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | 110 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: P-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 10:35

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | 6 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 103 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 89 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 103 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.
 Date Received: 9/11/09
 Work Order #: 0909-16403

Sample #: 007

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:55

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.7 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 59.0 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 520 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | 22 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | 1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | 39 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:55

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 102 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 77* | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 9/17/09 | MMM |

Method 8260:

* Surrogate is outside QC Range due to the sample matrix. The recovery was within the QC Range on the diluted analysis of this sample.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:26

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------|--------------|---------------|---------|
| pH (field) | 6.4 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 57.9 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | 3 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | 4 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 9:26

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 107 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 95 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 100 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 9/11/09
 Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 9/11/2009 @ 10:02**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.4 | | SU | SM 4500-H+ B | 9/11/09 | RG |
| Temperature (field) | 56.0 | | F | EPA 170.1 | 9/11/09 | RG |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroproppane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromo-chloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 009

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 10:02

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 109 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 97 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 104 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.
 Date Received: 9/11/09
 Work Order #: 0909-16403

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 9/11/2009 @ 10:02**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Dibromochemicalmethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 9/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 9/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 9/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 9/11/09

Work Order #: 0909-16403

Approved by:

Data Reporting

Sample #: 010

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 9/11/2009 @ 10:02

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 9/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 9/17/09 | MMM |
| Dibromofluoromethane | 105 | | 86-118% | 8260 | 9/17/09 | MMM |
| 4-Bromofluorobenzene | 97 | | 86-115% | 8260 | 9/17/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 9/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORD

Page of

Container Type Codes:
P = Plastic V = Vial
G = Glass St = Sterile
AG = Amber Glass
O = Other (describe)

Preservative Codes:
NP = Non preserved S = Sulfuric
I = Cooled 4°C H = HCl
N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SI = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

| Date Collected | Time Collected | Sample ID | G = Grab C = Comp. | Containers # + Code | Preservative Code | Matrix Code | Analyses Requested |
|----------------|----------------|------------|-----------------------|---------------------|-------------------|-------------|--|
| 9/11/09 | 0925 | MW-001S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1100 | MW-002S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1150 | MW-004S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1136 | MW-012S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1220 | MW-021S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1235 | P-035S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 0955 | P-036S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 0926 | P-037S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 1002 | P-038S | G | '3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 0839 | Trip Blank | G | 1V | H | DI | 8260 including O-Chlorotoluene |

Client Information**Project Information**

| | | | |
|--|---|-----------------|------|
| Company Name: Ciba Geigy | Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI | | |
| Address: Rt 37 West, PO BOX 71 | P.O. Number: | Project Number: | |
| City / State / Zip: Tom River, NJ 08754-0071 | Report To: | Phone: | Fax: |
| Phone: (732) 914-2517 | Sampled by: R. GRITZKE, M. Tessitor | | |
| Contact: Ms. Doreen McNicholas | Reference Proposal: | | |

| Relinquished by: | Date | Time | Received by: | Date | Time |
|------------------|---------|------|--------------|---------|------|
| Ryan Gritzke | 9/11/09 | 1331 | John D | 9/11/09 | 1331 |
| | | | | | |

| Turn Around Time: |
|--|
| <input type="checkbox"/> Normal |
| <input type="checkbox"/> 5 business days Surcharges may apply |

| | | |
|-------------------|---|-------|
| Project Comments: | MDLs: 1,2 dichlorobenzene <94 ppb chlorobenzene <1700 ppb O-chlorotoluene <1500 ppb toluene <1700 ppb xylanes <76 ppb | Y. TC |
|-------------------|---|-------|

| RIAL USE ONLY |
|--|
| <input type="checkbox"/> Pick-Up Only |
| <input checked="" type="checkbox"/> RIAL Sampled. Attach field hours |
| <input checked="" type="checkbox"/> Shipped on Ice |
| RIAL W.O. # 09-9-16753 |

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNichols
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 12/11/09
Date Reported: 12/21/09
P.O. #: TO 002129
Work Order #: 0912-22843

DESCRIPTION: CIBA GEIGY SITE ON MILL STREET IN CRANSTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

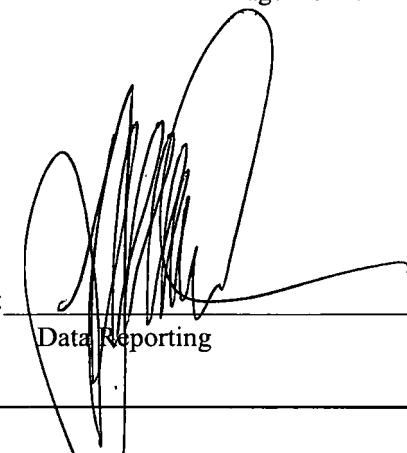
enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting



Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Sample #: 001

SAMPLE DESCRIPTION: MW-001S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/11/2009 @ 10:15

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 8.5 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 48 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 1000 | 1.0 | uMHOS/CM | SM 2510B | 12/15/09 | EC |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 800 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | 5 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | 16 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | 4 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | 6 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | 10 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-001S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 10:15

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 101 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 99 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 103 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 10:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.2 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 50 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 420 | 1.0 | µMHOS/CM | SM 2510B | 12/17/09 | TV |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | 110 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | 6 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 910 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | .11 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | 57 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-002S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 10:50

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 18 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | 7 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 101 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 98 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 102 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

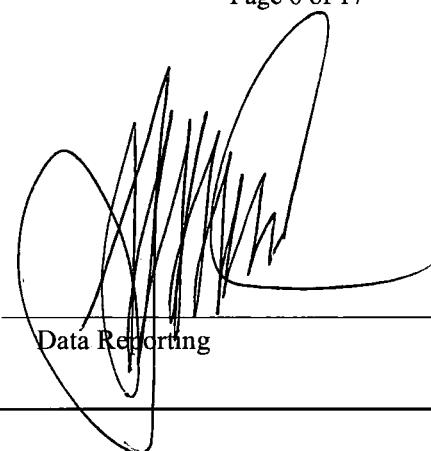
Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting



Sample #: 003

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 12/11/2009 @ 11:29**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.8 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 47 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 420 | 1.0 | uMHOS/CM | SM 2510B | 12/17/09 | TV |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: MW-012S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 11:29

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 102 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 96 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.

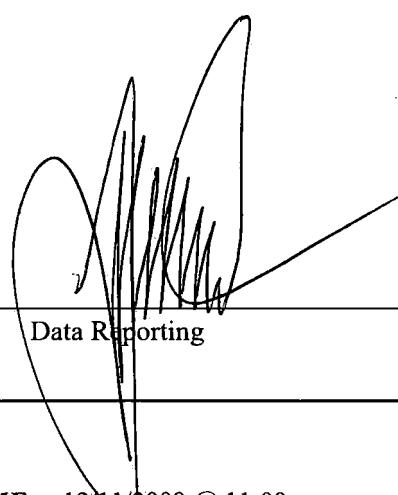
Date Received: 12/11/09

Work Order #: 0912-22843

Sample #: 004

SAMPLE DESCRIPTION: P-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 11:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.1 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 50 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 460 | 1.0 | µMHOS/CM | SM 2510B | 12/17/09 | TV |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 210 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | 4 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | 2 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |



R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 004

SAMPLE DESCRIPTION: P-035S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 11:00

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 66 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | 7 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 99 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 92 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 100 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 10:32

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 7.2 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 49 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 610 | 1.0 | uMHOS/CM | SM 2510B | 12/15/09 | EC |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 310 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | 6 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | 5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 005

SAMPLE DESCRIPTION: P-036S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 10:32

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 9 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | 1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 87 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 99 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Approved by:

Data Reporting

Ciba Specialty Chemicals Corp.
 Date Received: 12/11/09
 Work Order #: 0912-22843

Sample #: 006

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 9:48

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.5 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 50 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 340 | 1.0 | µMHOS/CM | SM 2510B | 12/15/09 | EC |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | 4 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 006

SAMPLE DESCRIPTION: P-037S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 9:48

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 6 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 98 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: P-038S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 12/11/2009 @ 9:30

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.6 | | SU | SM 4500-H+ B | 12/11/09 | ATP |
| Temperature (field) | 49 | | F | EPA 170.1 | 12/11/09 | ATP |
| Specific Conductance | 290 | 1.0 | µMHOS/CM | SM 2510B | 12/15/09 | EC |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 4 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 007

SAMPLE DESCRIPTION: P-038S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 9:30

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 97 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 95 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 99 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 12/11/2009 @ 11:58**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/18/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/18/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/18/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.

Date Received: 12/11/09

Work Order #: 0912-22843

Approved by:

Data Reporting

Sample #: 008

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/11/2009 @ 11:58

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|---------|--------|---------------|---------|
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/18/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/18/09 | MMM |
| Dibromofluoromethane | 101 | | 86-118% | 8260 | 12/18/09 | MMM |
| 4-Bromofluorobenzene | 99 | | 86-115% | 8260 | 12/18/09 | MMM |
| Toluene-D8 | 100 | | 88-110% | 8260 | 12/18/09 | MMM |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORD

Page 1 of 1

Container Type Codes:
P = Plastic V = Vial
G = Glass St = Sterile
AG = Amber Glass
O = Other (describe)

Preservative Codes:
NP = Non preserved S = Sulfuric
I = Cooled 4°C H = HCl
N = Nitric SH = NaOH
M = Methanol SB = NaHSO₄

Matrix Codes:
GW = Groundwater S = Soil
WW = Wastewater SI = Sludge
DW = Potable Water A = Air
O = Other (describe) B = Bulk/Solid

| Date Collected | Time Collected | Sample ID | G = Grab C = Comp. | Containers # + Code | Preservative Code | Matrix Code | Analyses Requested |
|----------------|----------------|------------|-----------------------|---------------------|-------------------|-------------|--|
| 12/11/09 | 10:15 | MW-001S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 10:50 | MW-002S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 11:29 | MW-012S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 11:00 | P-035S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 10:32 | P-036S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 9:48 | P-037S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| | 9:30 | P-038S | G | 3 V | H | GW | 8260 including O-Chlorotoluene, field data * |
| ✓ | 11:58 | Trip Blank | G | 1 V | H | DI | 8260 including O-Chlorotoluene |
| | | | | | | | |
| | | | | | | | |

Client Information

| | |
|--|---|
| Company Name: Ciba Geigy | Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI |
| Address: Rt 37 West, PO BOX 71 | P.O. Number: Project Number: |
| City / State / Zip: Tom River, NJ 08754-0071 | Report To: Phone: Fax: |
| Phone: (732) 914-2517 | Fax: (732) 914-2909 |
| Contact: Ms. Doreen McNicholas | Sampled by: A.P. |
| | Reference Proposal: |

Project Information

| Relinquished by: | Date | Time | Received by: | Date | Time |
|-------------------|----------|-------|--------------|----------|-------|
| <i>John L. L.</i> | 12/11/09 | 12:00 | <i>L.W.</i> | 12/11/09 | 12:00 |
| | | | | | |

| Turn Around Time: |
|--|
| <input type="checkbox"/> Normal |
| <input type="checkbox"/> 5 business days Surcharges may apply |

Project Comments:

*pH, temperature, S.C., measured in field. Field notes and results attached.

MDLs: 1,2 dichlorobenzene <94 ppb
chlorobenzene <1700 ppb
O-chlorotoluene <1500 ppb
toluene <1700 ppb
xylenes <76 ppb

3.5

RIAL USE ONLY:

- Pick-Up Only
 RIAL Sampled. Attach field hours
 Shipped on Ice
 RIAL W.O. # 0912-22843

0912-22843 | 001

Ciba Specialty Chemicals Corp.

Project: CIBI

Date Sampled: 12/11/09

Time Sampled: -----

ID:

ZZ-LABEL ZZ-DISPOSE ZZ-MINIMUM

Preservative:
none

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
Attn: Ms. Doreen McNicholas
P.O Box 71
Bldg. 216
Toms River, NJ 08754

Date Received: 12/14/09
Date Reported: 12/18/09
P.O. #: TO 002129
Work Order #: 0912-22928

DESCRIPTION: CIBA GEIGY SITE ON MILL STREET IN CRANSTON, RI

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

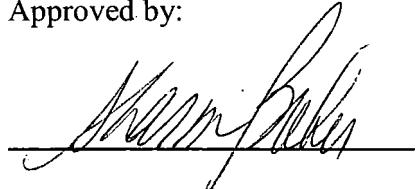
Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

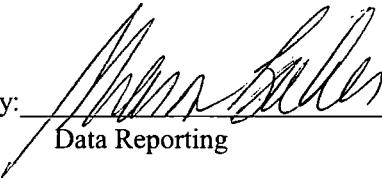
enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Ciba Specialty Chemicals Corp.
 Date Received: 12/14/09
 Work Order #: 0912-22928

Approved by:


Data Reporting

Sample #: 001

SAMPLE DESCRIPTION: MW-4S

SAMPLE TYPE: GRAB

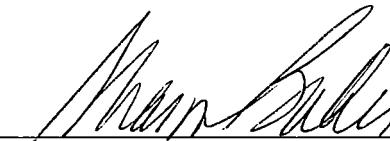
SAMPLE DATE/TIME: 12/14/2009 @ 9:41

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|----------|--------------|---------------|---------|
| pH (field) | 6.8 | | SU | SM 4500-H+ B | 12/14/09 | ATP |
| Temperature (field) | 53 | | F | EPA 170.1 | 12/14/09 | ATP |
| Specific Conductance | 420 | 1.0 | µMHOS/CM | SM 2510B | 12/17/09 | TV |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chlorobenzene | 96 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| m,p-Xylene | 1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| o-Xylene | 3 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Xylenes(Total) | 4 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 12/14/09
 Work Order #: 0912-22928

Approved by:



 Sean Baker

Data Reporting

Sample #: 001

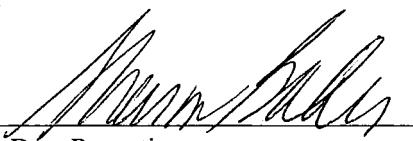
SAMPLE DESCRIPTION: MW-4S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/14/2009 @ 9:41

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 94 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichlorobenzene | 22 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/17/09 | MMM |
| Dibromofluoromethane | 100 | | 86-118% | 8260 | 12/17/09 | MMM |
| 4-Bromofluorobenzene | 98 | | 86-115% | 8260 | 12/17/09 | MMM |
| Toluene-D8 | 99 | | 88-110% | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 12/14/09
 Work Order #: 0912-22928

Approved by:


 Data Reporting

Sample #: 002

SAMPLE DESCRIPTION: MW-21S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/14/2009 @ 10:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| pH (field) | 6.7 | | SU | SM 4500-H+ B | 12/14/09 | ATP |
| Temperature (field) | 48 | | F | EPA 170.1 | 12/14/09 | ATP |
| Specific Conductance | 63 | 1.0 | uMHOS/CM | SM 2510B | 12/17/09 | TV |
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 12/14/09
 Work Order #: 0912-22928

Approved by:


 Data Reporting

Sample #: 002

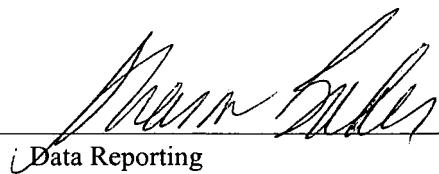
SAMPLE DESCRIPTION: MW-21S**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/14/2009 @ 10:20

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| o-Chlorotoluene | 2 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/17/09 | MMM |
| Dibromofluoromethane | 102 | | 86-118% | 8260 | 12/17/09 | MMM |
| 4-Bromofluorobenzene | 100 | | 86-115% | 8260 | 12/17/09 | MMM |
| Toluene-D8 | 101 | | 88-110% | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.
 Date Received: 12/14/09
 Work Order #: 0912-22928

Approved by:



Mann Miller
 Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE: GRAB****SAMPLE DATE/TIME: 12/14/2009 @ 8:35**

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| Volatile Organic Compounds | | | | | | |
| Chloromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Bromomethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Chloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dichlorodifluoromethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroethane | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Methylene Chloride | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| Trichlorofluoromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,2-Dichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chloroform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,1-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Tetrachloride | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromodichloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichloropropane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| cis-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Trichloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| trans-1,3-Dichloropropylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2-Trichloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Dibromochloromethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Bromoform | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Tetrachloroethylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,1,2,2-Tetrachloroethane | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Chlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Chloroethyl vinyl ether | <2 | 2 | ug/l | 8260 | 12/17/09 | MMM |
| Benzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Toluene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Ethylbenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| m,p-Xylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| o-Xylene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Xylenes(Total) | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Acetone | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Carbon Disulfide | <5 | 5 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Butanone(MEK) | <10 | 10 | ug/l | 8260 | 12/17/09 | MMM |
| Vinyl Acetate | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 4-Methyl-2-pentanone(MIBK) | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| 2-Hexanone | <50 | 50 | ug/l | 8260 | 12/17/09 | MMM |
| Styrene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| o-Chlorotoluene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,2-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| 1,3-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.**CERTIFICATE OF ANALYSIS**

Ciba Specialty Chemicals Corp.

Date Received: 12/14/09

Work Order #: 0912-22928

Approved by:


Data Reporting

Sample #: 003

SAMPLE DESCRIPTION: TRIP BLANK**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 12/14/2009 @ 8:35

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------------|-----------------------|-------------------|--------------|---------------|----------------------|----------------|
| 1,4-Dichlorobenzene | <1 | 1 | ug/l | 8260 | 12/17/09 | MMM |
| Surrogates | | | RANGE | 8260 | 12/17/09 | MMM |
| Dibromofluoromethane | 95 | | 86-118% | 8260 | 12/17/09 | MMM |
| 4-Bromofluorobenzene | 101 | | 86-115% | 8260 | 12/17/09 | MMM |
| Toluene-D8 | 96 | | 88-110% | 8260 | 12/17/09 | MMM |

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Phone: (800) 937-2580
Fax: (401) 738-1970

950 Boylston Street, Unit 102
Newton Highlands, MA 02461
Phone: (888) 228-3334
Fax: (617) 965-5624

CHAIN OF CUSTODY RECORD

Page 1 of

| Container Type Codes: | Preservative Codes: | Matrix Codes: |
|-----------------------|---------------------|----------------------|
| P = Plastic | V = Vial | NP = Non preserved |
| G = Glass | St = | S = |
| Sterile | Sulfuric | GW = Groundwater |
| AG = Amber Glass | I = Cooled 4°C | WW = Wastewater |
| O = Other (describe) | N = Nitric | DW = Potable Water |
| | NaOH | A = Air |
| | M = Methanol | O = Other (describe) |
| | NaHSO ₄ | B = Bulk/Solid |
| | | |

Client Information

Project Information

| | | | |
|--|---|-----------------|------|
| Company Name: Ciba Geigy | Project Name / Location: Ciba Geigy site on Mill Street in Cranston, RI | | |
| Address: Rt 37 West, PO BOX 71 | P.O. Number: | Project Number: | |
| City / State / Zip: Tom River, NJ 08754-0071 | Report To: | Phone: | Fax: |
| Phone: (732) 914-2517 | Sampled by: A.P., R.G. | | |
| Contact: Ms. Doreen McNicholas | Reference Proposal: | | |

~~Relinquished by:~~ Alma Date 12/14/09 Time 10:55 ~~Received by:~~ Michelle Stein Date 12/14/09 Time 10:55

Turn Around Time:

Project Comments:

*pH, temperature,
measured in field. Field notes
and results attached.

MDLs: 1,2 dichlorobenzene <94 ppb

chlorobenzene <1700 ppb

O-chlorotoluene <1500 ppb

toluene <1700 ppb

0912-22928

TRIAL USE ONLY

Take-Up Only

AL Sampled. Attach field
notes.

pped on Ice 09/2-22928

0912-22928 001

Ciba Specialty Chemicals Corp.

Project: CIB1

Date Sampled: 12/14/09

Time Sampled: 9:41

ID:

ZZ-LABEL ZZ-DISPOSE ZZ-MINIMUM

Preservative:
none